

Manufacturers Record

Exponent of America



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APRIL 23, 1925

Some Facts About the South.

Number 1.

The South is now spending largely more than \$100,000,000 on public school education in excess of what the United States thus expended in 1900.

The receipts of Southern universities, colleges and professional schools are now about equal to the receipts of such institutions in the entire country in 1910.

There are nearly as many students in these higher institutions of learning as the number in all similar institutions in the United States in 1900.

There were in 1922, the last available data, 9,247,835 pupils enrolled in the public elementary and secondary schools of the South, as compared with a total of 23,239,227 for the same year in the entire country. Thus the South has nearly 40 per cent as many students in its public schools as the entire country.

It is equally surprising to find that the total number of children in the South between five and seventeen years of age as given in the report of 1922 is 11,266,775, against a total for the United States of 28,627,201, showing that the South has about 40 per cent of the children between the ages of five and seventeen years in the United States, a percentage considerably larger than the percentage of children for the whole country.

The total exports through Southern ports for the calendar year 1924 amounted to \$1,627,937,000, or only \$117,000,000 less than the total exports from all the ports of the United States in 1910, and more than \$510,000,000 in excess of the total exports from all United States ports, excepting Southern ports, in 1910. It is \$233,000,000 in excess of the entire exports from the United States in 1900.

The total exports from all Pacific Coast ports during 1924 amounted to \$444,555,000. The exports from Texas alone exceeded the total exports from the Pacific Coast by \$262,000,000, and all Southern ports exceeded the exports from the Pacific Coast ports by \$1,183,000,000.

In 1910 the total imports through Southern ports amounted to only \$128,735,000, as compared with \$465,143,000 for 1924.

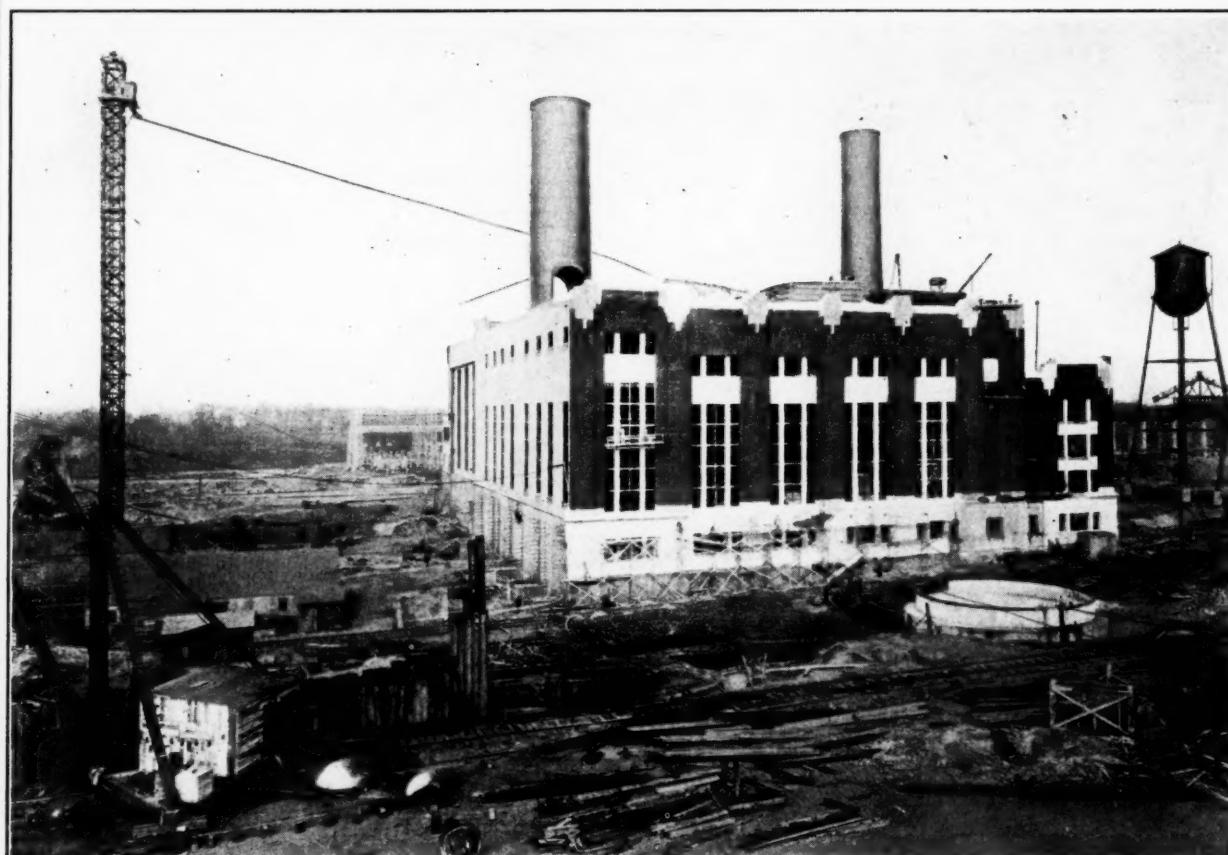
The total foreign trade, exports and imports, at Southern ports for last year amounted to \$2,093,080,000.

These facts in regard to the educational progress and the commerce of the South are only suggestive of a thousand or more equally interesting facts to be found in the 1925 edition of the Blue Book of Southern Progress, which we will issue within a few weeks.

A story of what the South has and what it has done, as given by states in this year's Blue Book, should be read and studied by every man and woman in the country, those in the North and West as well as those in the South. These facts open up a vista of future progress beyond the power of the mind to grasp.

During the next few weeks we shall from time to time present some other equally as striking facts and figures as those given in the opening paragraphs of this article as to what the South is doing in other directions as taken from the advance proof pages of this year's Blue Book. In the light of these facts, so significant in all the business ramifications and all the life of the country, we cannot do better than to devote this cover page for a few weeks to brief statements such as we have given, in order to drive the truth home to the people of the whole country. But the readers of this page should not be content simply to absorb these facts; they should study every phase of Southern progress and Southern prospects, which will make this year's Blue Book of Southern Progress a handbook of the South of greater interest than any of the former editions.

The price of 50 cents a copy, with lower figures for larger orders, puts it within the ability of every man and woman in the South to own a copy for their individual study and for the benefit of their families.



*Steam Power Plant for the Twin Branch Power Company, South Bend, Ind.
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225,000 H.P. is to be the ultimate capacity of this new power plant now in course of construction near Mishawaka, Indiana. Two of the six units will soon be housed and operating. The plant is being erected for the Twin Branch Power Company, a subsidiary of the American Gas & Electric Company, by The Foundation Company to serve various communities in Indiana and Michigan. Rapidity of progress is shown by the view pictured above, taken just one year after ground was broken.

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APRIL 23, 1925

Manufacturers Record

EXONENT OF AMERICA

CONTENTS

Some Facts About the South.....Cover Page

EDITORIALS

Why "Bouquets for Ford—Bricks for Rockefeller?".....	5 ⁿ
Prominent Steel Operator Buys Option on Florida East Coast Canal Company.....	60
American Cotton Manufacturers Association Commends Southern Exposition.....	61
Time to Herald the Truth Abroad.....	61
How Georgia Went Over the Top Should Be an Inspiration to Others.....	62
Misunderstood the Scope and Plan of the Southern Exposition.....	63
American Forest Week of Prime Importance to Industry.....	64
The Government Commends, But at the Same Time Penalizes.....	64
Misleading the Students of Georgia Tech and Other Colleges.....	65
On With the Good Work!.....	66
Method Which Will Quicken the Life of Every Town That Tries It.....	67
Are Southern People Really "Sold" on Their Section?.....	68

NEWS ARTICLES

Potash Readily Obtainable from American Sources.....	By J. W. Turrentine 69
Fertilizer from Coal.....	By Robert Stewart 71
The World Awaits the Southern Exposition.....	74
Alabama Especially Fortunate in Its Progressive Exposition Committee.....	75
Governor McLeod Is Earnest in Support.....	76
Enthusiastic for Coastal Highway.....	78
Electricity En Route to Agriculture.....	By P. O. Davis 79
"Alexandria (Va.) Stirring and Awakening".....	82
Rebuilding the Sugar Industry of Louisiana.....	By Thomas Ewing Dabney 83
The Pine Institute of America Advances.....	85

DEPARTMENTS

News and Views from Our Readers.....	86	Mechanical	93
The Iron and Steel Situation.....	87	Commendations, Kicks and Comments.....	94
Railroads	88	Construction	95
Textile	90	Machinery, Proposals and Supplies Wanted.....	118
Good Roads and Streets.....	91	Trade Literature	122
Lumber and Building Materials.....	92	Industrial News of Interest	122

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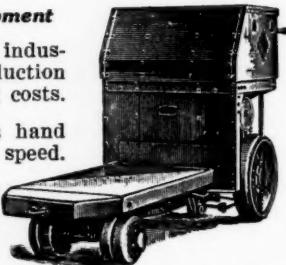
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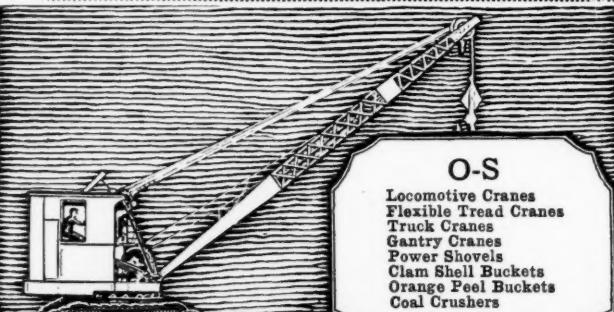
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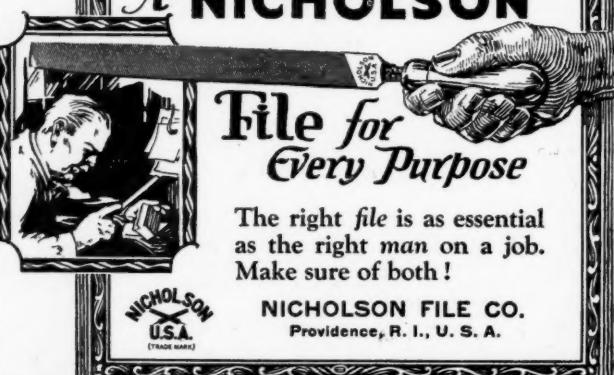
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Manufacturers Record

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BALTIMORE, APRIL 23, 1925.

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Why "Bouquets for Ford—Bricks for Rockefeller"?

GEORGE W. HINMAN, in the New York American, discussing the great wealth of Henry Ford, under the heading "Bouquets for Ford—Bricks for Rockefeller," raises the question as to why one man is constantly praised by the public and the other man has had brickbats thrown at him for many years. He asks the reason and adds:

"The question is important, for if all big business men could make themselves as popular as Mr. Ford among the radicals there would be peace in the nation's business.

"Is Mr. Ford spared because he is personally popular and pays good wages? There are other employers who pay as good wages, are fully as popular with their employes, and yet are on the radical black list.

"Is Mr. Ford spared because he is a great philanthropist? No? Yet he receives bouquets from the upheavers, while the peace founders and college promoters get brickbats."

Mr. Hinman then raises the question as to why one man who makes \$100,000,000 a year profits is heartily commended by all the public and why other great corporations which have many stockholders are criticised.

To these points Mr. Hinman adds:

"Who can answer these questions fully and satisfactorily? If any man can do so, he will confer a great benefit on big business in the United States by giving the answer soon, for somehow Mr. Ford has found some method of sweetening public opinion which is almost as valuable to business as his discovery of the flivver itself."

The answer, we think, is very simple. Mr. Ford—as was Mr. Carnegie—is one of the shrewdest, ablest publicity-getters that this country has ever known. His publicity department is in itself a marvel in its achievements. It is able to get through the Associated Press at Detroit everything which Mr. Ford does of any public importance whatever, and nothing which would militate against Mr. Ford in the public mind ever gets out from Detroit. As a publicity—"getter" Mr. Ford is as great a success as he is a manufacturer. There is no human being that does not make some mistakes. Doubtless Mr. Ford makes many of them, but the public never hears about them. Whatever he does, however, which could possibly win public favor is spread broadcast on the first page of practically every daily paper in America. He wins public favor by such methods to an extent little comprehended by the very people who read these dispatches about his wonderful achievements.

Mr. Carnegie had the same power. Probably no big employer in this country was ever more ruthless in fighting his competitors or gave less regard to the welfare of the workers in his steel mills, but Mr. Carnegie was able, by the most remarkable genius in publicity-winning, to create the impression that he was a philanthropist to a hitherto unknown extent. Some years ago a big steel concern in Pittsburgh said

to one of the representatives of the MANUFACTURERS RECORD that he did not care to advertise because Mr. Carnegie did not advertise, and yet Carnegie was the dominant leader in that industry, and if he could do without advertising, surely they could. The reply to this statement in substance was:

"If you are ever able to secure as much free publicity as Mr. Carnegie and to have a publicity agent who can fill the papers of the country with reports about you and your business, then you can afford to follow his example and not spend money in advertising, but until you can match him in that respect and likewise get on the front page of the papers for everything you say and do, it would be well for you to advertise."

Some years ago when Mr. Rockefeller and his Standard Oil associates were being so mercilessly attacked by newspapers and magazines, they entirely ignored these criticisms and permitted the public to gain the impression that they had no defense or were wholly indifferent to public opinion. It was a day of muck-raking generally, and so the magazines and newspapers were filled with their denunciations of the Standard Oil Company's operations. But these people did not realize the power of public sentiment. They completely disregarded these criticisms. They ignored them to an extent as great as the cotton manufacturers of the South have ignored the charges made against them in regard to child labor, and they paid exactly the same penalty for this indifference to public sentiment that the cotton manufacturers have paid and the South as a whole has paid in not vigorously replying to every charge made against it.

The world believes that the cotton mills of the South employ thousands and tens of thousands of immature children because the cotton manufacturers have been just as inert in putting the truth before the public as was the Standard Oil Company.

Some years ago the editor of the MANUFACTURERS RECORD, in a letter to Mr. Flagler, warned him that his company was doing more to develop anarchy in the United States than all the soap-box orators in the United States. It was said in this letter that it was not written in the interests of Mr. Flagler and his associates, but wholly in the interests of this country, for we saw the inevitable development that would follow in anarchistic activities unless Mr. Rockefeller and all of his associates took the public into their confidence and made a definite reply to every charge that was published, and in such way as to reach the entire country.

It so happened that a few months thereafter the writer met Chancellor Day of the Syracuse University—which had been richly endowed by Mr. Archbold—while he was attending a Methodist conference in Baltimore. Mentioning the substance of the letter to Mr. Flagler, Dr. Day said he had recently written to Mr. Archbold in almost exactly the same line of thought. Discussing the subject one day with Mr. Archbold, vice-president of the Standard Oil Company, Mr. Archbold said: "I give you my word of honor that since the rebate

law was passed this company has not violated it in any way whatsoever." And yet at that very time the company was being bitterly denounced for having violated this law repeatedly and was making no reply thereto.

Mr. Ford was wiser than the Standard Oil people and the Southern cotton manufacturers. He realized the importance of first impressions. He has not waited to be attacked before he has aggressively, in advance of any attack, reached the public with one statement after another, using every possible opportunity to create a favorable impression as to himself and his business methods. Apparently not a single opportunity has ever been allowed to slip by without Mr. Ford's publicity department presenting him and his business in a favorable light. On the other hand, Mr. Rockefeller, giving away his millions and hundreds of millions, has never won public favor. Today millions of people believe that every time Mr. Rockefeller makes some munificent gift, the price of oil or gasoline is instantly raised to offset the money thus expended. However groundless this charge is, it is still firmly believed by millions of intelligent people, and has been repeated so often without even a reply that it has been engraved deep in the hearts and minds of many people.

There is no trouble whatever in giving an answer to the questions raised as to why Mr. Ford is popular and why Mr. Rockefeller is unpopular. Mr. Ford piles up vast millions and the public applauds him. Mr. Rockefeller piles up fewer millions and the public unceasingly criticizes him, even though here and there some one may praise his benefactions. Mr. Ford is probably in no way whatever a better man from any point of view than Mr. Rockefeller. His business methods are probably in no way higher than those of the Standard Oil Company, and he probably does not treat his labor nearly so well as does the Standard, but he has always realized the power of catching public sentiment and utilizing it for his own benefit exactly as Mr. Carnegie did.

The Standard Oil people and many other great corporations failed to realize this power in time, never utilized it to any large extent, and therefore have had to pay the penalty of public criticism and hostility which still exists against them. It is true that of recent years the Standard Oil Company has made a great change in its publicity work. It often now specifically and definitely denies adverse statements which are made against it. Had this policy been inaugurated in the early days of the Standard, and been persistently followed, that company and all of its founders would have been regarded with as great favor as is Mr. Ford and as Mr. Flagler is in Florida where his creative work changed a wilderness into a veritable garden of Eden. Flagler's benefactions were never made public, although they were many. But he met the public in Florida in person. He came in touch with people everywhere. He utilized every opportunity to win the friendship of the state, and he won it to an unstinted extent. He was kindness and geniality of the sincerest kind with all his employees. They were his personal friends and he was theirs.

For the good of the country it is an infinite pity that the publicity policy pursued by Mr. Ford was not from the very beginning pursued by the Standard Oil Company and by the great railroads, which absolutely lost all public favor and created public enmity by their numerous blunders and their public-be-damned policy of former years, and which was voiced in actual words as well as in acts by other railroad presidents besides Mr. Vanderbilt. Much of the anarchistic spirit of this day, much of the unwise legislation of the last 25 years, is wholly due to the unpardonable blunders in defying public sentiment and ignoring it by men who might have saved the country from present conditions.

Mr. Rockefeller for many years made the great mistake of ignoring public sentiment. Mr. Ford had the wisdom to pursue exactly the opposite policy.

Here is the answer to Mr. Hinman's question.

PROMINENT STEEL OPERATOR BUYS OPTION ON FLORIDA EAST COAST CANAL COMPANY.

J. L. Replogle, well-known steel operator of New York, has purchased an option from the Rhode Island Trust Company on the securities of the Florida East Coast Canal, an enterprise projected many years ago under a large state land grant. This canal was never completed except in stretches and has not, therefore, been made fully available for traffic along the east coast of Florida. It is rumored that Mr. Replogle paid \$50,000 cash for the option.

Along this canal route there are great possibilities for developing a waterway from Jacksonville to Miami which would be of enormous value to that whole region. The canal has been bandied back and forth and suffered many legal entanglements, but for some time the entire ownership of it has been vested in the Rhode Island Trust Company of Providence, R. I., as trustee. That company has now given an option to Mr. Replogle.

Frank H. Swan of Providence, attorney for the Trust Company, advises the MANUFACTURERS RECORD that Mr. Replogle has assured him that if he meets with proper encouragement in the towns along the waterway he will widen and deepen the channels, equip the entire route with suitable freight vessels and undertake substantial developments along the line.

If Mr. Replogle exercises his option, for which he has paid a substantial sum in cash, Mr. Swan says that he feels sure the waterway will be put in first-class condition for its whole length and that it will be maintained in a manner highly satisfactory to the public. Mr. Replogle has already been to considerable expense in obtaining the estimates of engineers based on soundings and cross-sections made under the supervision of United States engineers for the proper widening and deepening of the waterway. Mr. Swan adds:

"I am sure that the plans which the prospective purchaser of the canal and his associates now have under consideration will mean much to the east coast country, and I hope nothing will interfere with their consummation."

The development of this work along the line proposed by Mr. Replogle would be almost as important to a large section of Florida as the building of a new railroad from one end of the state to the other. It would create waterway transportation facilities for freight up and down the east coast, the effect of which would be instantly felt for the good of the entire section. Traffic in Florida is growing more rapidly than railroad facilities. The state has about 1200 miles of gulf and ocean frontage, with a wonderful river system, all of which should be utilized fully in order to care for increasing traffic and to secure the low water rates. Instead of this being an injury to the railroads, it would, as in other cases, be of direct benefit to them. It would so enlarge the prosperity of the state as to give a still greater volume of business to the railroads, and thus benefit them while benefiting all other interests.

GOOD ADVICE TO FOLLOW.

In reply to an inquiry from another commercial organization in the South, B. S. Barker, executive secretary of the Atlanta Chamber of Commerce, wrote (sending us a copy) as follows:

"By far the best industrial or trade journal that I know of is the MANUFACTURERS RECORD of Baltimore. This is a live industrial paper—very helpful to the upbuilding of the South, and every week its columns show the pending developments covering industrial activity coming into the South, as well as all contracts that are actually signed. I recommend that your Chamber of Commerce take the MANUFACTURERS RECORD of Baltimore."

We trust that not only every chamber of commerce in the South but every other man interested in the progress of this section will follow Mr. Barker's advice.

**THE AMERICAN COTTON MANUFACTURERS
ASSOCIATION HEARTILY COMMENDS THE
SOUTHERN EXPOSITION.**

SECRETARY ADAMS of the American Cotton Manufacturers Association advises the MANUFACTURERS RECORD that the Board of Governors at the meeting in New Orleans April 10-11 passed a resolution unanimously endorsing the Southern Exposition and commanding it to the attention of individual members of the Association. Mr. Adams writes that this was in response to a letter from the editor of the MANUFACTURERS RECORD addressed to the president, a copy of which was sent to every one of the directors.

The resolution was offered by Stuart W. Cramer, who wires this paper:

"Our Board of Governors unanimously passed a strong resolution of endorsement in compliance with your telegram."

The letter to which Mr. Adams and Mr. Cramer refer as having been sent by the editor of the MANUFACTURERS RECORD was as follows:

"The Southern Exposition will definitely be held in New York on May 11th to 23d. It has aroused very widespread interest in New York and among business men of the highest standing living in New York who are natives of the South or are identified with the South.

"J. B. Duke, as you have probably read in the papers, is very strongly in its favor and is having his North Carolina interests make exhibits. Col. E. M. House, and B. F. Yoakum, who built some of the big railroad systems of Texas, have sent a special representative to Texas to see that that state is adequately represented. George Gordon Crawford, president of the Tennessee Coal, Iron & Railroad Co., the greatest industrial enterprise in the South, and other men of equal standing in their lines, have formed a committee in which they pledged themselves to take hold actively in order that Alabama shall be adequately represented. Georgia is doing similar work, and likewise South Carolina. Many other states are busy in preparing exhibits.

"I know the time is very short, but I want again to lay before you and your directors a suggestion I made last May that the cotton-mill people of the South should in some way make an exhibit, comprehensive and in such detail as to give to the people of the East an entirely new conception of the cotton-mill industry of this section.

"I believe that at least two-thirds of all the fight that has been made in behalf of the Child Labor Amendment has been brought into existence by the misrepresentation of child labor in Southern mills. I think the cotton-mill people of the South would have done themselves and the world a very great service if 25 or 30 years ago they had begun an open, straight-out fight against these slanders which have increased with the years. The central South is held up before the world unceasingly, even in Geneva, on the alleged ground of the employment of immature children in Southern mills, and the conditions under which they are said to work.

"I repeat the suggestion made last May, to the effect that I believe the greatest possible work the cotton-mill people could do for themselves and the South would be to stage in the Southern Exposition a comprehensive exhibit of what they are making, with pictures of their mill villages and individual employees' houses, their Christian Association buildings, and have in charge of the exhibit young men and young women selected for their intelligence, in order to show the character of the work that the mills are doing and the character of the people they employ. Such an exhibit, I think, would give the Eastern papers an opportunity to give

favorable publicity to the cotton-mill industry greater than they have ever before had.

"I think you could in this way help to turn the tide of slander away from the cotton-mill interests. Unless you are reading newspapers from all over the country, unless there comes to you and your associates the stories and speeches which are read or heard everywhere about the alleged slavery of children in Southern mills, you cannot comprehend the things that are being said against the South and its very civilization and Christianity.

"Although the time is short in which to prepare for such an exhibit, time does not count so much when energy and unceasing vim are thrown into an enterprise. I beg, therefore, again to make these suggestions, and I am taking the liberty of sending a copy of this letter to members of the board of directors in order that they may be studying the matter and reaching their conclusion before they reach New Orleans."

We are glad to know that this letter commanded the thorough approval of the directors, several of whom wrote to this paper in advance of the meeting heartily endorsing the position we had taken.

The time is short for the individual members of the Association to prepare comprehensive exhibits for the Southern Exposition, but it is not too short for those who want to be numbered among the exhibitors and who have the energy and initiative to push their plans with the rapidity and thoroughness with which they push their manufacturing interests.

A number of Southern mills have already made arrangements to be represented, but others should be on hand in order that the exhibit of what the South is doing in cotton manufacturing should be as comprehensive as possible. The New York Cotton Exchange will make an exhibit of its operations. Surely the cotton mills of the South ought to be ready with their exhibit to show what is actually being done in producing the goods, in contrast with the buying and selling of cotton which will be shown by the New York Cotton Exchange.

TIME TO HERALD THE TRUTH ABROAD.

UNDER the heading, "Time for the South to Make the Truth Known," the Montgomery Advertiser has an extremely interesting editorial calling upon the cotton-mill people of the South to make the facts known in regard to that industry, in order to set at rest forever the charges which for 30 years or more have been spread broadcast throughout the land in regard to child labor in Southern mills.

The Advertiser also uses the occasion to emphasize the need for making other truths about the South known widely throughout the nation, not only for the South's good but also for the good of the whole country. In the closing paragraphs of its editorial that paper said:

"At the Southern Exposition in New York the South will tell the story of its material progress since the days of penury and travail—a story not to be matched by any other section or country in the world. In presenting visual evidence of the South's material advancement in New York, promoters of the Exposition should, and doubtless will, find a way also to dissipate erroneous impressions about the South's progress in other than material lines. It will afford a good opportunity, for instance, to tell the story of the South's accomplishments in welfare work, with particular reference to children who labor for wages.

"There was a time when child labor conditions in the South were no better than they should be—no better, for example, than child labor conditions in New England. But means to

ameliorate the conditions of the young who must labor for their bread have been generally adopted in the United States, in the South no less than in other sections. Southern states have advanced legislation for the protection of children. In addition the owners of mills employing children have themselves adopted advanced and humane measures. They have created sanitary and hygienic working conditions. They have provided recreation centers. They have provided modern schools for their employes; they have advanced wages. In every instance their employes are faring better, physically, mentally and perhaps spiritually, than they fared before they found employment at the mills. This is a matter of common knowledge in the South. It ought to be made equally a matter of common knowledge in other sections of the Union."

It is to be regretted that the full story of the South, as full and broad as it should be, will not be presented at the Southern Exposition. The Southern Exposition should have included every state in the South, and pre-eminently every phase of the cotton industry, and this could all have come about if the railroads of the South had realized what the opportunity meant and appreciated the responsibility of backing the Exposition wholeheartedly in spirit and in work and in financial co-operation. But the railroads, as a whole, fell down on the job. The Seaboard Air Line, the Georgia & Florida and the Southern Pacific stand out conspicuously for having done their work, and done it well. But other roads in the South did not meet the opportunity, and the excuses which they have given are mere excuses and not reasons. Some thought the time was inappropriate; some thought one thing, and some thought another. Some, like the Southern Railway, thought it did not concern them at all, and they had nothing to exhibit. In this respect, we believe, the Southern Railway led the procession. Some few roads fell down because of other causes. But we think that every railroad which failed to join wholeheartedly in the enterprise missed the greatest opportunity that has ever been offered to render an invaluable service to themselves and to the country tributary to them.

Nevertheless, by almost superhuman effort of the officials of the Southern Exposition and of the Grand Central Palace, the Exposition will awaken the people of the East to the resources of the South. It already has stirred a very lively interest in New York among banking houses, among leading business men identified in one way or another with the South and among Southern women living in New York. It also has quickened the interest of Eastern papers and, though it may not be as complete as it should have been, it will start a discussion of the South—indeed, this has already come about—to a greater extent than has ever before been seen in Eastern papers. And perhaps best of all it will wake up such Southerners' interest, individual and corporative, that have not been as keen as they should have been in working for further upbuilding. The whole truth is becoming answered and this Exposition is the cause of much of this awakening. The states and the corporations that exhibit will be benefited, while the laggard states will be stimulated into new activity.

HEAVY AUTOMOBILE MOVEMENT.

THE Charlotte (N. C.) Observer recently published a statement based on a report of the State Highway Commission that about 4500 automobiles a day were passing through North Carolina on their way North from the South. Most of these cars were probably from Florida. The Highway Commission took an exact census in 13 counties and, found on one day 4434 foreign cars were checked as passing 105 stations. The domestic travel as shown by the report indicated that approximately 100,000 automobiles had been on the state highways of these 13 counties on that particular day.

HOW GEORGIA WENT OVER THE TOP SHOULD BE AN INSPIRATION TO OTHERS.

Atlanta, April 14.

Editor Manufacturers Record:

In recognition of the invaluable and unfaltering encouragement and publicity given us by you and the Manufacturers Record, the Atlanta Junior Chamber of Commerce begs to announce the successful conclusion of our drive for funds for a state exhibit at the Southern Exposition. We are over the top with the money and are now co-operating with Dr. McCallie, State Geologist, and Dr. Soule, president of the State Agricultural College, on the mineral and agricultural exhibits, respectively, and to the end that no state shall excel us in the presentation of our resources and potentialities.

Frank A. Hooper, Jr.,
Chairman, Southern Exposition Committee of Georgia.

The foregoing telegram, to the effect that the money has been raised for a state exhibit at the Southern Exposition by Georgia, is worthy of some special comment. For back of this success lie the power and work of one or two men who determined that Georgia should not fail. Their work should be an inspiration to others to achieve. When the legislature failed to pass a bill for a state appropriation, although one branch did pass it and the other failed for lack of time, everything halted and every movement suggested failed to materialize. One plan after another was proposed, but nobody threw into it a sufficient determination to carry it out. Railroad officials said it could not be done, and it looked as though Georgia would be left out entirely. But one man, Henderson Hallman, an Atlanta attorney, determined that Georgia should not fail. He suggested to Governor Walker that the Governor call upon the Junior Chamber of Commerce of Atlanta to assume the responsibility. That organization never had done any real, serious, big work. It never had assumed any special responsibility; but when the call came from the Governor, urged on by Mr. Hallman, the responsibility was accepted and then there began a campaign in which they faced many discouragements. Some of the young men started out for a campaign through the state, paying their own expenses. One of them presented the matter to the people of Savannah, but succeeded in raising only \$10 in that city. Discouragement, however, only stimulated them to harder work. Public meetings were held and gradually some of the older men of Atlanta were enlisted in the campaign.

Probably no successful movement ever had a harder uphill fight because of the refusal of the railroads to co-operate and because of a lack of enthusiasm at the start by the business leaders who should have been the first to carry forward this work. But for the suggestion to the Governor by Mr. Hallman, and the unceasing work which he gave in co-operation with the men, Georgia would have been missing at the Southern Exposition. In all of this work and the final achievements there is to be found an illustration of what a few leaders can do when they determine to carry forward an enterprise and refuse to admit defeat. There is not another Southern state which will be missing at the Exposition in which similar work could not have been done if there had been one or two men of ability and of leadership who had been willing to put aside their own business and determine that their state should be represented. It might have required heroic work. That kind of work was needed in Atlanta and Georgia. They might have had to overcome many difficulties, but these difficulties could

hardly have been greater than those that were overcome in Georgia.

The success of the Junior Chamber of Commerce should be an inspiration to the younger men of the South. If the older generation is halting anywhere in constructive up-building, the younger generation must come to the front and go forward, determined that their state and community shall not be laggards.

MISUNDERSTOOD THE SCOPE AND PLAN OF THE SOUTHERN EXPOSITION.

IN further discussions of the failure of the Southern Railway to take any part in the Southern Exposition, Lincoln Green, assistant to the president, again shows that the company never fully understood or grasped the motives for, or the plan for, the Southern Exposition. Writing under date of March 31, in reply to a telegram urging that the mineral and chemical exhibit which that company now has in Washington should be transferred to the Exposition, Mr. Green said:

"Referring to your letter of March 27 and Western Union night letter of March 30:

"I have been in personal contact with the movement looking to the Southern Exposition at New York since it began. At the outset it was proposed to make it an exhibit of manufactures. The scope of the plan has since been enlarged, and I have no doubt Mr. Sirrine would now like us to take space in this Exposition for the purpose of displaying our mineral exhibit. This exhibit is of a permanent character, recently established in Washington. I did not mean to convey the impression that it is a movable affair. It is not practicable for us to move this exhibit from place to place. Prior to its establishment here we did convey many of these specimens to the Chemical Exposition.

"These expositions are numerous; they differ, perhaps, in some detail as to character, but it is impossible to take representation in each of them, and the expense involved in the aggregate is substantial. We have repeatedly given thoughtful consideration to Mr. Sirrine's proposals, and cannot see our way clear to take space in his Exposition. If we are correctly informed, only two railways will have space.

"I am always sorry to disagree with you about anything."

We are equally sorry to disagree with a good friend like Mr. Green, but we are compelled in justice to the South to do so. In reply to Mr. Green's letter, the editor of the MANUFACTURERS RECORD wrote:

"I am in receipt of yours of March 31. According to my understanding, the scope of the plans of the Southern Exposition has in no way whatever been enlarged from the first proposition that was made. When Mr. Sirrine and his associates planned for the Exposition, it was for the definite purpose of getting every state in the South to make a complete and comprehensive state exhibit. Application was immediately made to all state legislatures then in session to make a state appropriation for that purpose. This had nothing whatever to do with individual or manufacturing exhibits.

"If you had given Mr. Sirrine the privilege of meeting you or Mr. Harrison at any time when he repeatedly asked that opportunity, you would not have labored under this serious mistake which you have expressed in your letter. The Exposition was not intended whatsoever as an exhibit of manufacturers; I am sorry that you have so misunderstood and misinterpreted the plans.

"No Exposition such as the Southern Exposition was intended to be held in this country. It was an original movement, organized by Mr. Sirrine and his associates for the purpose of having every Southern state represented by comprehensive exhibits of its mineral, timber and agricultural resources in the heart of New York. Unfortunately, Mr. Sirrine took the commendation which your road and others gave to the enterprise by letter, followed by letters to the MANUFACTURERS RECORD, as really meaning something, rather than mere words of flattery. He proceeded, therefore, on the thought that, having the hearty commendation of Southern railroads, he would have their co-operation in making the exhibits.

"Your road has fallen down completely in that respect, as have some of the other roads, but the roads which are

winning the largest favor of the public are the roads which will be represented at that Exposition. If you could see the letters that have come to me this morning from leading people throughout the South, people in a position to measure public opinion, in criticism of your recent letter to the MANUFACTURERS RECORD you would recognize that the Southern Railway is losing friends rapidly, instead of making them.

"I regret to have to speak so plainly, but this is the fact, and it is much better for the officers of the Southern Railway to know it in time, rather than wait until it is too late to regain the favor of the public.

"I am writing thus frankly and, you will understand, in a spirit of friendship, because I think it is necessary to emphasize very strongly that the plan of the Exposition was not changed and that its original plan was for a comprehensive state exhibit by all of the Southern states, something that never before had been attempted in this country, except at world fairs."

VIEWS OF A NEW ENGLAND COTTON MANUFACTURER.

ARTHUR H. LOWE, treasurer of the Parkhill Manufacturing Company, Fitchburg, Mass., and largely identified with the cotton-mill industry of the South, in a letter to the MANUFACTURERS RECORD writes:

"I think the Southern Exposition, to be held in New York, is very timely, and I am also glad that you are so strongly in favor of combating the slanders that have been heaped upon the South in reference to the employment and abuse of children in the cotton mills.

"I built a mill at Huntsville, Ala., about 1902 or 1903. I established a 60-hour per week running time, I put a trained nurse in charge of the village, started a Sunday-school, and declined to employ any children under 14 years of age; but notwithstanding these facts I did not escape the abuse that was heaped generally upon the Southern cotton mills.

"It has been charged that the Northern mills are responsible for the scurrilous attacks upon the Southern mills for the employment and abuse of children. This is absolutely false as a general proposition. It may have been possible that some of the Northern mills had sympathized with the attacks, but I almost doubt that."

"I AM GOING TO LET SOMEBODY ELSE PAY FOR IT."

A REPRESENTATIVE of the MANUFACTURERS RECORD, in soliciting a subscription from a Florida bank, was told by the officer with whom he was talking that he "greatly appreciated the MANUFACTURERS RECORD and the wonderful work it is doing for the South," but declined to subscribe, with the statement, "I am going to let somebody else pay for it."

The MANUFACTURERS RECORD does not ask anybody to pay for the work it is doing in behalf of the South. It seeks no pay from anybody, either by subscriptions or advertisements, on that basis. It wishes no subscription from any man who will not take the time to read the MANUFACTURERS RECORD or to whom the information it gives is not of more value than the cost of an annual subscription. It wishes no advertising based on the work it is doing for the South, but only on the basis of profit to the advertiser.

We do not know whether the gentleman quoted meant to express the thought that he preferred to let somebody else pay for the MANUFACTURERS RECORD, or to pay for the work it is doing. But, at any rate, he need not be disturbed in regard to the matter. His subscription is not essential to the welfare of this paper nor to the carrying on of its work, but we would like to venture the suggestion that a subscription to the MANUFACTURERS RECORD, provided he would read the paper, would be very enlightening in many ways and give him every week information with which he is not at all familiar.

AMERICAN FOREST WEEK OF PRIME IMPORTANCE TO INDUSTRY.

PRESIDENT COOLIDGE has proclaimed the week of April 27 to May 3 American Forest Week, and has urged that Arbor Day, the national plant-a-tree day, be observed within that period wherever not inconsistent with state laws designating Arbor Day.

In order to appreciate the reasons for American Forest Week it is necessary, first, to visualize the ramifications of the chief industries based on forest products, and second, to visualize the enormous preventable wastes that are helping to reduce our forests about five times as fast as they are regrowing. Our industries that depend wholly or almost wholly on forest products for their raw materials employ more than 1,000,000 wage-earners, not to speak of salaried employees, and their products annually exceed \$5,000,000,000 in value. These figures do not include homes or home building. They do include planing-mill products, paper and paper products made of wood pulp, printing and publishing. They include furniture manufacture. They do not include such kindred industries as paint, varnish and stain manufacture, which use no forest products, but which exist for the sake of the forest products, either wholly or to a considerable degree. They represent an immense group of industries on whose products our industrial and social life depends—a group of industries that, on the whole, is growing with the growth of the nation and is an indispensable part of the nation's life.

This immense group of industries, with its large population of wage-earners and their families, could not exist without the forests. Yet our forests are being destroyed between five and six times as fast as they are regrowing, and our consumption of forest products is constantly increasing. Unlike our mines, which are irreplaceable by any known process, our forests might easily be replaced, and we well know it and know how to do it. We know that certain Old World countries have been denuded of their forests by just such careless indifference as ours, and that now the people of those countries are paying a heavy penalty for the sins of their fathers. We know that some European countries have for many years practiced scientific planting, cultivation and harvesting of their forests just as we plant, cultivate and harvest corn and cotton. We like to consider ourselves the most progressive nation on earth, but in this matter we must confess that Europe is decades ahead of us, and we are doing very little as yet to catch up.

Secretary of Agriculture Jardine estimates that about 80,000,000 acres of burned-over and cut-over forest land, which should be producing wealth in the shape of second-growth forests, is lying idle. This area is greater than the combined areas of Arkansas and Missouri. If these two states were laid waste the world would ring with the tidings of the loss, but with a like area of potentially productive forest land laid waste, and annually increased by 8,000,000 acres devastated by man-made forest fires, we scarcely lift a hand to remedy the trouble.

Much of this idle land would rapidly reseed itself if protected from the annual grass fires. Much of it will require artificial reseeding, or planting. Here and there a few corporations, such as the Great Southern Lumber Company of Louisiana, are reforesting their timber lands, but in many states the forest tax laws have the effect of forbidding reforestation, though that, of course, is not their intent. Fires can be largely prevented, for most of them are the results of gross carelessness. Laws can be revised, as they have been in a few of the states, to encourage reforestation rather than discourage it. We can, if we will, perpetuate our forests by proper methods of cultivation and cutting, so that in spite of our increasing cut our posterity a hundred years hence will find at least as great stands of timber as we have today.

But if we continue to mine our forests rather than cultivate them, if we continue to destroy them by careless fires, and permit the devastated land to lie idle, our posterity will find no forests whatever.

The purpose of American Forest Week is to drive home to all our people the fundamentals of forest protection. A few states are already taking the lead in that work, in schools, in their press and in every available manner. With our press, including magazines of national circulation, concerted, nationwide action is desirable. It would be a splendid thing if every magazine and paper in the United States during the week, or the month, of American Forest Week would publish something about its importance.

Our means for developing a national understanding of any subject are better than the world has ever seen before. Scarcely a man or woman in the country but reads some paper or magazine every day, and several times every week. If every reader during that one week should see confronting him in every paper he opens something about forest protection and conservation, the value would far exceed the cost. It is not a subject that concerns lumber companies alone, nor the families of those 1,000,000 employees of industries dependent upon the products of the forest. It is a matter that concerns everyone who lives in a house, who uses furniture, who reads a newspaper or who eats any food that he himself has not produced.

THE GOVERNMENT COMMENDS BUT AT THE SAME TIME PENALIZES.

THE Federal Oil Conservation Board, recently appointed by President Coolidge to investigate the oil situation in this country, has issued a very interesting statement paying high tribute to the work which the technical press of the country has done in behalf of the oil and all other industries. The statement is as follows:

"The President's Oil Board today turned to the technical press of the country in its quest for information and constructive suggestions concerning the problems confronting the general petroleum situation into which the Government is conducting a far-flung inquiry, with the ultimate hope of being able to formulate a policy which will stabilize production and distribution.

"To the oil industry—the productive, the distributive and refining branches—the Federal Oil Conservation Board, of which Secretary Weeks, Secretary Wilbur, Secretary Hoover and Secretary Work are members, already has directed letters of inquiry, asking specific technical data and such advice and suggestions as may be helpful to the industry and Government alike. When this information is in hand the board will have before it for consideration the collective view of the industry relative to the major problems that demand increasing attention in view of the constant expansion of all the ramifications of the industry. Then, too, the Federal board will have access to all the important data bearing upon the industry that is now and is constantly coming into the possession of the Government. With this general survey before it, the board will be enabled to look at the situation from every possible angle.

"The heads of the great oil and gas journals of the country have in the past and, the board feels, will in the future continue to exercise a tremendous influence in fostering the best interests of the Government and the industry.

"Secretary of the Interior Work, as chairman of the board, explained today that the technical press of the country has supported the oil industry with fidelity through all its stages of development, and always, so far as the general public and the Government was concerned, maintained a fine spirit of integrity and independence.

"To these men who encouraged and supported the pioneer prospector in the days when oil first was discovered in this country, and who, in later years, counseled and advised through their journals with the leaders of the great producing companies, the Government well can look assured of sound advice and helpful assistance. The whole basic fabric of this republic is founded upon intelligent interpretation of public sentiment and dependable leadership, and the beacon

light that has guided the nation, our whole people and the great industries, has ever been the printed word rather than the spoken word, for through the press all may more readily know the truth. It is with this thought in mind that the board wishes to benefit through the advice and support of those important technical journals which have for so many years been so closely linked with the oil industry."

This is a tribute to the business papers of the country which is especially interesting and timely in view of the determined and successful effort of the Administration and of Congress to lay a heavy burden upon these business papers by increased postal rates, notwithstanding the fact that they are able to prove by the actual figures issued by the Postoffice Department that instead of being carried by the Government at a loss they are paying a very considerable profit to the Government.

This tribute from the Federal Oil Conservation Board does not overstate the case. The technical papers of this country, and indeed all other business papers, are rendering a service to this nation of incomparable value. They are carrying forward the work of American development and of American conservation to a greater extent than all the work that is done by the various governmental departments representing the business interests of the land. Notwithstanding this, however, the Administration and Congress have made it all the more difficult for the business papers to do their work. On top of an increase of from 100 to 400 per cent in postal rates during the war as a war measure, Congress has again piled additional taxation upon these papers by another heavy increase in postage, with the approval of the Administration.

It is a remarkable situation which is thus faced, a situation in which every business man in the country is vitally interested, for business men of all kinds, from the corner grocer to the great industrial and business corporation leaders of the country, all look to business papers for information on their individual interests and on the national problems which are always more fully discussed in the business papers than in any others.

PREPARING FOR INSURRECTION AND MURDER.

WHILE Federal, state and municipal officials smile in toleration, or snore comfortably on their posts; while the pacifists continue "pacifying" and the thoughtless, careless people of the land stifle their active patriotism, the Soviets of the world are busy in America, working for the overthrow of the United States Government by violence. At present they are raising funds to compass the defeat by the incoming Congress of a prospective bill for deportation of radical aliens and for repeal of the criminal syndicalist laws throughout the land.

"Three leagues of young Communists, comprising the English, Russian and Jewish branches," it is disclosed, "are planning to stage a series of entertainments for this purpose," and also the Labor Defense Council and International Workers' Aid, formerly Friends of Soviet Russia, are to help in the work.

In an address at Knights of Columbus Hall, Los Angeles, March 2, on "The Decay of Capitalism," Professor—or, former Professor—Scott Nearing predicted the "fall of capitalism in America" and asserted that the Communists were preparing to embroil the world in war by promoting rivalry between great business and commercial corporations.

To some members of that large order it may be a matter of some surprise that the Knights of Columbus should permit the use of their hall by open, avowed, militant elements which proclaim their intent to overthrow the Government and to sovietize the country through wholesale murder and destruction.

MISLEADING THE STUDENTS OF GEORGIA TECH AND OTHER SOUTHERN COLLEGES.

FURTHER indication that proponents of the so-called Child Labor Amendment find their chief support in impressionable and uninformed minds, and largely through sentimentalism and emotionalism, is noted in an editorial, "We Must Face the Music," published in *The Technique*, a weekly paper issued by the students of the Georgia Institute of Technology. Therein, indeed, lies one of the gravest evils of the pro-Amendment campaign—its misinformation and misleading of such formable minds as those of these fine young students, as well as the minds of more mature persons who have not studied the subject and "fall for" merely the emotional appeal.

Evidently, moved by "an eloquent address before a group of Tech men" by Paul Blanshard, field secretary of the League for Industrial Democracy, who "presented labor's side of the economic controversy now raging," the editors of *The Technique* have been carried away and swept off their balance without hearing the other "side" of this "raging" controversy. Paul Blanshard is described by an authority on radicalism as "a preacher, experimenter in industrial workmanship, organizer, educational director, writer and, for a time, secretary of the Rochester Labor College." Of the League for Industrial Democracy we shall speak further on for the enlightenment of the students who recently were swayed by the "eloquent address" of its field secretary.

According to the editorial in *The Technique*, Mr. Blanshard "emphasized facts which are surprising (when one considers the high state of civilization upon which we pride ourselves as having reached) and lamentable." Were the editors of *The Technique* better informed, they would have written that Mr. Blanshard emphasized "allegations"—the "surprising" nature of which we are not disposed to question. For instance, one learns that Georgia, North Carolina and South Carolina "pay the textile workers least and work them longest," and that "these facts are used by textile employers all over the country as a shield and an excuse when the question of increased wages for the laborer comes up." Thus, comments the editorial, "the squalid conditions which surround the laborer and under which his children—America's citizens—must grow up are perpetuated."

Even if one were, for the sake of argument, to accept Mr. Blanshard's false allegations as "facts," and swallowing off-hand his assertion that these three states pay lower wages than some others, we may remind the editors of *The Technique* of this fact: In estimating and negotiating for a wage scale, organized labor generally considers living costs and conditions in individual sections; so if the editors of our esteemed contemporary compared living costs in Georgia and North and South Carolina with those in states in which wages may nominally be higher, they might question Mr. Blanshard on that point.

As to "the squalid conditions which surround labor," have the editors of *The Technique* ever investigated these working and living conditions themselves, either personally or through reliable representatives?

In "The South's Development," recently issued by the MANUFACTURERS RECORD, the editors of *The Technique* may find much illuminating information on the subject of the textile industry in the South. We commend to their attention and study the article, "Cotton Mill Employes of the South," by Wade H. Harris of Charlotte, N. C.

With some hesitancy we reprint another paragraph of the editorial in question—hesitant, because after gaining a little practical knowledge and experience these student editors, we feel sure, in future years will read their present-day

effusion with some amused embarrassment and sorrow; for instance:

"As future leaders in industry and commerce, Tech men should realize Labor must be helped from above; that it should be granted the right of collective bargaining in order to deal with Capital on the same plane; and that Capital should not judge Labor by one set of standards and then attempt to judge itself by another."

As "leaders in industry and commerce" in the future, when they shall have emerged from the shades of theory into the glare of actual business and professional life, Tech men will find that labor is fully able to "help" itself and needs no tender treatment, and that capital regards the welfare of labor and of capital as mutual and reciprocal and not as antagonistic. The assumption that these students are "above" labor is impertinent to labor until they prove their superiority by their lives.

As those of a Tech alumnus, comments by Raymond C. Broach of the Heine Boiler Company, St. Louis and Atlanta, may not be without interest to the editors and others of the student body; thus:

"It (the editorial in question) will give an idea of the great effort being made to impress the impressionable minds of the future leaders of this section with propaganda favoring such radical thought. I am an alumnus of Georgia Tech and for that, if no other, reason regret to see these ambassadors of new thought come to our schools with 'surprising' information that has been got together to aid the fight for this national Child Labor law. If it were true, all that they say, we well might consider it. However, I have seen these accusations, branded as false so often, by accurate and convincing proof, that I hesitate to put much confidence in any of them."

So much for the editorial. We have described Mr. Blanshard; now let us turn to the organization he represented in his appearance before the students of Georgia Tech. Said the late R. M. Whitney, an authority on communism, sovietism and redism in general in the United States and author of "Reds in America":

"The League for Industrial Democracy has a very generous list of names included in its officers' roll, executive committee and national council. They are names well known in Socialist circles. This is natural, for the League for Industrial Democracy was formerly the Intercollegiate Socialist Society, which had its origin in an upper room in Peck's restaurant, Fulton street, New York, in 1905. Jack London was its first president and Upton Sinclair the vice-president. Upton Sinclair is still connected with the group. He has advanced his ideas well toward communism. * * * Sinclair says of himself: 'I am for Foster's policy of boring from within.'

"The organization, which was started under London's and Sinclair's guidance, soon grew from the first group of a hundred or more students of socialism to an extensive society, sending lecturers and organizers to hundreds of colleges, distributing thousands of pieces of literature, promoting correspondence courses, conducting research work and publishing material. COLLEGE STUDENTS ARE URGED TO COME MORE CLOSELY IN TOUCH WITH LABOR" (caps ours).

Such is the organization from whose representative the fine young students of Georgia Tech are permitted by its officials to imbibe radical doctrine. Youth is confiding, youth is trustful; youth is sympathetic. It is wicked for men of maturity to permit it to be misled, misguided or misinformed. In days to come these bright young editors of The Technique may resent deeply the imposition which has been inflicted upon them and which has misled them into publishing the editorial we have discussed.

ON WITH THE GOOD WORK!

ONE of the outstanding business organizations of the entire South working on broad lines for state development is the Mississippi Development Board. It is doing much to arouse that entire state and awaken the long-latent energy of its people. This Board recently ordered 1000 copies of the 1925 edition of the Blue Book of Southern Progress, which will be ready for distribution in a few weeks, and referring to that order L. J. Folse, the manager, writes:

"I am very hopeful that I shall be able to increase my subscription to the Blue Book within the next week or ten days. We now have a complete list of all the teachers in the state, whether white or colored, and I am trying to get enough copies to place the Blue Book in the hands of every one of them."

That is the spirit which shows what this Development Board is doing. It is seeking, in the first place, to stimulate the teachers of the state to broaden their knowledge of the South, to stir their ambition by showing what other states are doing, as will be told in the Blue Book of Southern Progress. Moreover, this Board is planning not simply to send a copy of the Blue Book to the white teachers of the state, but to the negro teachers as well, and it is an interesting fact that some of the most enthusiastic readers of the MANUFACTURERS RECORD and its various publications are negro leaders in educational work in the South. From time to time we receive from them letters of appreciation of what we publish in regard to the resources and progress of the South. They show a deep interest in its welfare, an earnest desire to see the South prosper in keeping with its resources, and a spirit of patriotism in regard to the South which matches that of the most patriotic white people.

This is a spirit which must be cultivated and developed through a hearty co-operation of the whites and the negroes for the betterment of all classes and for the South as a whole.

What other organization in the South will undertake to see that every school teacher in its state is benefited in the way the Mississippi Development Board is planning for the teachers of that state? We know of nothing that would more thoroughly quicken the spirit of enthusiasm for the South than for the teachers of this section to catch a vision of what this section is, what it has, and what its possibilities are, and carry that message to every student in every school in the South. Then, indeed, would the young people of the South begin to realize the heritage which they enjoy in the privilege of living in the South.

It is to the younger generation that this section must look for its highest achievements. This was pre-eminently shown in the recent decision of the Junior Chamber of Commerce of Atlanta, every member of which is a young man, that Georgia should be represented at the Southern Exposition. The older generation of business men and the older Chambers of Commerce had fallen down and failed on the job, either from lack of appreciation of the opportunity or from a spirit of indifference and lack of enthusiastic initiative. But the young men took hold of it. They have proven the material of which they are made. They have stirred all Georgia, and their success will be an inspiration to themselves and to the people of the state. They will wake up the older generation and quicken them to a new appreciation of what they should do in carrying forward the story of the South's progress.

In the organization of these Junior Chambers of Commerce throughout the South there is hope for an inspiration to the younger men in leadership which will be inval-

uable through all the years to come. A quickening, vivifying, regenerating power is being born in the South through the work of the younger men. Their opportunity is glorious; their responsibility is boundless to themselves and to their communities. They are catching the vision of what they can make of their own beloved section. They are inspiring other young men and stimulating the older men, and out of this will come an influence of measureless good for the moral and spiritual and material upbuilding of the South.

The time will come when it will no longer be said that the South does not know itself; that its teachers do not understand how to teach their students about the South, its past and its future; when its young men will cease to seek opportunities in the North and West for business which they have heretofore thought could be found in larger measure than in their own section.

Let the facts about the South be sown widely, as good seed on fertile soil, and they will bring forth a harvest of richness of moral and spiritual and material advancement such as no other section of this country has ever known.

On with the good work!

"POTASH FROM AMERICAN SOURCES."

JUST about 20 years ago the late Edward Atkinson, writing to the MANUFACTURERS RECORD on the need of discovering a potash supply for the United States, pointed out the dangerous situation of our country in being dependent upon Germany for our potash which could, as he said, be cut off at any time by war. The man who discovered a new source of potash sufficient for our needs would be rendering the country, said Mr. Atkinson, a far greater service than one who discovered a new gold field or a new iron ore field.

The discovery has been made. It is partly in the discovery of potash deposits in Texas, which are extremely promising, and partly in the discovery of the ability to produce potash as a by-product in other lines of industry.

We can readily appreciate the enthusiasm of Mr. Atkinson, if he were alive, in finding that potash could be produced as a by-product, for he was an ardent advocate of everything which looked to the saving of what had been waste.

Dr. J. W. Turrentine, in charge of the potash investigations of the United States Department of Agriculture, in this week's issue gives a story of what has been done in saving potash as a by-product and in producing it out of natural resources. The facts presented by him are illuminating, and the argument which he advances as to the necessity of producing potash at home in order to save the vast sum, yearly increasing, which we are paying for potash produced elsewhere is convincing. Dr. Turrentine shows that our ability to produce potash as a by-product in iron making, in cement and in other industries has been demonstrated beyond question. The managers of these industries will fail of their responsibility to the country and to themselves if they do not carry forward to as great an extent as possible the production of potash. It is true that there must be an assurance of a continued protective tariff on potash while we are developing this business. Those who oppose such a tariff are opposing the safety of the country and the larger development of our agricultural interests.

TIME FOR THE TIDE TO TURN.

IN recent municipal elections in Chicago and Kansas City, Mo., only one-third of the potential vote was cast in each city, this apparently being now the average in a majority of elections of all kinds. Thus the United States and the lesser political units thereof turn to rule by a minority, instead of a majority, except in so far as it is rule by a majority of a minority. Now, it might seem, the tide of public duty and interest is at lowest ebb.

A METHOD WHICH WILL QUICKEN THE LIFE OF EVERY TOWN THAT TRIES IT.

THE HERALD of Haines City, Fla., in a recent issue had the following:

"Under the caption of 'Why People Come West' the Oakland (California) Outlook states:

"Seattle spends \$250,000 annually featuring the great Northwest and Seattle spirit.

"Portland has just gone over the top on a \$300,000 goal to advertise Oregon.

"San Francisco will have spent \$750,000 in a two-year program to show the world San Francisco knows how.

"Los Angeles invests \$200,000 annually to make herself the most talked-of place in the world, and it's working.

"San Diego, little but mighty, feels \$75,000 is not too much to ask of her business men to advertise Coronado Beach and Balboa Park, and she gets it."

"The cities of Florida should spend more money in the right kind of advertising. It is gratifying indeed to note the substantial fund being raised by the Florida Development Board for the purpose of advertising our incomparable state. Florida's climate is unexcelled anywhere in the world and it is up to the cities of Florida to raise the necessary funds for letting the whole world know 'Why People Come South.'"

The suggestion of the Herald applies not simply to Florida but pre-eminently to every other state in the South; Florida is doing more advertising than any other state and yet there is still room for Florida to expand its advertising activities, for it is through its advertising that the present wonderful development of that state has been brought about. Other Southern states, if they would follow Florida's example, could attract far more attention than they are doing.

Advertising does not simply draw men and money from other sections, but it enthuses the people in the place in which the advertising is done. Live, vigorous advertising in the local papers of Florida is largely responsible for stimulating the spirit of enthusiasm in local people and in helping them to get a broader vision of their own opportunities. The live town is often made alive by virtue of local advertising. The dead town is one in which comparatively little advertising is done.

The town or the state that desires to be left alone without being disturbed from its long sleep of death should never advertise, locally or outside, for the moment its business people commence live advertising, its banks, its merchants and its manufacturers commence to tell their own people what they have on which to build up industry, a new spirit will be awakened.

Today the most important thing in three-fourths of the towns of the South is to wake up the local people, and this can only come through the tonic of well worded and well placed advertising in all their local papers.

When once a town breaks loose in a spirit of local advertising it will then be prepared to spend money for outside advertising, but the local paper has a right to enlist the heartiest co-operation of its local clientele, and the better and broader this advertising, the more spirit that is thrown into it, the more optimism that is given it, the more quickly is the community itself aroused into new life. Then that community is in a position to invite other people to come and take part in its development. No town or city or state has a right to seek to draw outside men and money until it has put its own house in order, until it has cleaned up its streets and paved them if they are unpaved, painted and beautified its homes and put on its best Sunday-go-to-meeting clothes in order to welcome the stranger who may be invited there.

Any advertising where, in the language of the day, the goods cannot be delivered, is worse than useless, because the money is not only wasted but the results are harmful rather than helpful.

The merchant who advertises goods which he cannot deliver wrongs his prospective customer and his own business. The community which advertises resources and attractions in

order to invite outside men and money, unless it has brightened up and cleaned up and painted up is doing itself harm, and if a prospective investor or settler comes he is driven away and takes an unfavorable impression with him. Therefore, let every community in the South that wants to develop wake up, clean up, paint up and begin an active advertising campaign in the local papers about its own business interests. Then, and only then, can it afford to go before the world and invite others to come.

ARE SOUTHERN PEOPLE REALLY "SOLD" ON THEIR SECTION?

CHARLES W. HOWARD, manager of the Industrial Board of the Chamber of Commerce, Chattanooga, in a letter to the MANUFACTURERS RECORD referring to its special publication, "The South's Development," says:

"I want to tell you what a wonderful book you have produced in your Half Century number.

"I wish every school in the land could place copies in their school library. In this connection, every school in Chattanooga, and this includes the colored schools as well, have copies of your 1924 Blue Book, a copy for each room above and including the sixth grade. It is a pleasure to note that they are putting them to practical use. One of our troubles, that you of all men recognize more completely than any of us, is the mass of Southern people are not 'sold' on the South. I notice it in my business and in discussing it with young fellows who have returned from their last years in Eastern colleges. I think I am safe in saying that 75 to 80 per cent of them will take positions for less money in the East than the same position would pay at home. I think we older people are largely responsible for this."

Mr. Howard has put his finger directly on the sore spot in Southern life. Many of our Southern people do not fully appreciate the resources and the development of the South. They are often more inclined to think some distant state has greater advantages and resources than their state. They have imbibed the old notion so constantly hammered into them for many years by the press and the people of other sections, as well as of the South, that this section could do nothing of itself and that it could not offer to young men the same opportunities as the North and West, until they have actually learned to believe some of these things.

They remind us of a story of a devoted, aged, Christian woman who often had many and remarkable dreams. At first she would tell them as dreams. After a while she would forget that they were dreams and tell them as realities, until she became thoroughly convinced that the things had happened in her life, although they were wholly dreams. She was too good a woman ever intentionally to exaggerate in the slightest. She was too clear-thinking and well educated to repeat as a reality anything that did not exist, except when in the case of dreams they finally became graven so deeply on her mind that she really thought she was telling the literal truth when she repeated her dreams as though they were realities, forgetting entirely to call them dreams.

The people of the South have to a very large extent done the same thing. Under the tremendous depression that so long existed following the Civil War they dreamed that the things told them about the inability of the South to rise above its ashes were in truth realities; that the South could not develop, and that it was wise for its young people to seek opportunities elsewhere. Southern fathers and mothers in thousands of cases said that as much as they hated the separation, they would rather see their children go West or North because of the supposed better opportunities.

The South must, in the language of the day, be "sold" on itself. Southern people must realize that if a country more richly endowed than any other region on earth cannot match, and more than match, the progress of other sections, its failure to do so will be because they are inferior to the people of other sections—and we do not believe that any Southern

man of intelligence, when he puts that problem squarely before himself, will accept that view. We have the resources and the raw materials of every kind needed for the creation of the greatest prosperity and the greatest business known in this or any other country.

In publishing "The South's Development" and the annual issues of the Blue Book of Southern Progress we have aimed to broaden the knowledge of the South among Southern people, that they might be quickened into a livelier interest in the further development of their country. We rejoice to know that this influence has been set at work, and that it is already stimulating thousands of Southern people to have a higher appreciation of their own section; or, in other words, to be "sold on the South."

NATIVE AND FOREIGN STOCK IN AMERICAN POPULATION.

IN New England over 60 per cent of the population is of foreign stock, Rhode Island leading with 69 per cent, followed by Massachusetts with 66 per cent and Connecticut with 65 per cent.

In the West, North Dakota leads with 65 per cent, Minnesota has 64 per cent, while New York has 62 per cent.

The average for the country outside of the South is 48.2 per cent, while the 16 Southern states have only 8 per cent of foreign stock, North Carolina having the lowest proportion, with .7 of 1 per cent, followed by South Carolina with 1 per cent; Georgia with 1.6 per cent; Mississippi, 1.5 per cent; Alabama, 2.2 per cent; Maryland, Texas and Missouri bring the proportion for the entire South up to 8 per cent.

In New York city 76 per cent is of foreign stock, while Chicago has 72 per cent of foreign stock.

The Anglo-Saxonism of the South's white population and the superiority in many respects of the South's negro population over much of our foreign population are of vital importance to the future of this section. They are a great asset, as against a great liability of much of the alien element elsewhere.

It is needless to say that millions of our foreign stock are among the best people, viewed from every standpoint of our population, but there are many millions who are alien in thought and in language, who have no spirit of Americanism in them, and who are active fomentors of bolshevism and its kindred evils. They are a distinct liability as against the homogeneity of the white population of the South and the good qualities, as a whole, of the negro race, with its capabilities for work and for advancement.

The full statistics of our native American and our foreign population as given in the 1925 edition of the Blue Book of Southern Progress will furnish an interesting study for the country. Have you ordered your copy of the Blue Book for 1925? Price 50 cents.

Wheat Condition South Above Country Average.

Based on the average condition of winter wheat on April 1, the Department of Agriculture forecasts a production of about 474,255,000 bushels of wheat, compared with 590,037,000 bushels in 1924. The average condition of winter wheat on April 1 was 68.7 per cent of normal, compared with 83 per cent on April 1, 1924; 75.2 per cent in April, 1923, and 81.2 per cent, the average condition for the past 10 years, on April 1.

Except for Oklahoma and Texas, the condition of wheat in the South is far above the average for the whole country. The condition of wheat in Texas was 47 per cent on April 1, as compared with 91 per cent last year, while Oklahoma reports 65 per cent, as compared with 87 per cent last year. Last year the South produced 142,632,000 bushels of wheat, compared with 139,628,000 bushels in 1923.

Potash Readily Obtainable From American Sources.

By J. W. TURRENTINE, In Charge, Potash Investigations, United States Department of Agriculture.

The American fertilizer industry, one of the fundamentally important industries of the nation by virtue of the fact that it serves the greatest of all American industries, agriculture, is dependent for its operations on supplies of the three raw materials—ammonia, phosphoric acid and potash.

Of ammonia America has large supplies, the product of its own industries, but they are inadequate and the Government has recognized the importance of meeting an annual deficit in ammonia by establishing the Muscle Shoals project to manufacture air nitrates. Of phosphoric acid we have an abundance and are large exporters. Of potash we produce only a fraction of our requirements; a few years ago we produced none. Today we are still going abroad for the bulk of an essential commodity, so vital to American agriculture that during the late war, when our foreign source was cut off, we were glad to be able to secure it even at a price ten times the normal.

Our annual importation of potash salts is at the rate of about 1,000,000 tons, containing 250,000 tons pure potash of a value of \$15,000,000, although in 1920 we imported \$34,000,000 worth. This is the tribute exacted of us annually on account of our lack of national independence with respect to an industrial necessity. This is a national outlay which it is our desire and purpose to see terminated.

The Government potash researches are designed to effect an annual saving to the nation of \$15,000,000, in addition to the various collateral advantages to accrue, among which is enhanced national defense in its broadest sense. Our present expenditures for foreign potash are too great, and they may be expected to increase through the increased demands of agriculture for potash and the increase in price of the foreign article confidently expected. It is our hope to see a situation brought about through which this great sum of money will be spent at home in support of American industries, instead of in Europe, in conformance with an American policy so well established and recognized as so wise and yielding such great benefits to American industry as to need no further advocacy here. It requires only the short period of a few years to carry the present toll beyond the \$100,000,000 mark, a toll which we are still paying to a nation whose national efficiency led her to develop her natural resources.

The establishment of an American potash industry means the termination, once and for all, of foreign exploitation of American agriculture. It means potash for American agriculture at a price under the control of Americans, and it means more abundant potash and cheaper potash through the elimination of the great expense of long freight hauls now entailed in bringing potash from Europe and distributing it over the country from ports of entry. These are a few of the considerations animating us who are devoting our efforts to the establishment of an American potash industry.

At the time of the inauguration of the Government's potash investigations in 1911, a result of our first realization of what was involved in our absolute dependence on a foreign source for an agricultural and industrial necessity, America produced no potash at all and was not aware that domestic sources of economic importance existed. Surveys were instituted, and as a result we now know pretty definitely where the American supplies of potash are to be obtained and how they are to be produced. Methods are being perfected whereby the inexhaustible quantities of potash locked up in great mineral deposits, such as the alunites of Utah, the leucites of Wyoming, the greensands of New Jersey, Delaware and

Maryland, the sericitic of Georgia and the potash feldspars of various parts of the country, may be recovered.

We now have unmistakable evidence of the occurrence of subterranean potash deposits in the Southwest, in fulfillment, possibly, of our long cherished hope that some day we should find such deposits which would be comparable to the great German deposits.

And we now find that in the waste products of some of our industries, notably the sugar, wool-scouring, alcohol, cement and blast-furnace industries, there is occurring a constant loss of great quantities of available potash, in the aggregate more than enough to supply American agricultural needs, the recovery of which is entirely feasible.

To these surveys and investigations much of our war-time success in the establishment of emergency potash industries was due—industries which developed a production capacity of approximately 50 per cent of our peace-time requirements. And now, with European competition more severe than ever before experienced, there is today in operation an American potash industry based on the three raw materials—desert lake brines and the waste from alcohol and cement industries. While producing, perhaps, not more than 10 per cent of our requirements, this industry is highly significant and of the greatest importance as illustrating in the most convincing manner what can be done with American raw materials.

Early in the study of the economics of potash production from American sources it became apparent that potash alone could not be produced therefrom; that it would have to be produced as a by-product, or with the aid of by-products which would share the burden of manufacturing costs. By-product potash possesses the economic advantages that it is a constituent of waste materials which, in any event, must be disposed of and whose disposal represents an expense, and is a product of industries already established and, therefore, is not to be charged with investment costs other than those occasioned by the relatively slight outlays for supplementary equipment. Furthermore, potash recovery from such industries involves economies entirely aside from the value of the potash itself. This is particularly true of the blast-furnace industry. In the large volume of combustible gases evolved from the blast furnace there is a heavy burden of dust which must be removed in large part, at least, before the gases can be burned efficiently in the recuperative stoves and under boilers, and completely before they can be used in gas engines. In this dust is carried a marked percentage of potash which has been volatilized from the furnace as potash fume, and recondensed as finely divided potash compounds.

The purification of these gases up to the recent past has been effected universally by washing with water sprays, a method not only inefficient as a means of cleansing the gases but also wasteful in the extreme, in that it cools the gases and thus causes the loss of the very considerable heat-burden carried by them. And, of course, the potash washed down by the water sprays is dissolved to a very dilute solution and is carried away and lost. The method has nothing to commend it except the fact that it is old and time-established, and is the one with which the industry has long been familiar and for which it is now equipped. It is only within recent years that alternate dry methods have been developed to the degree where they are able to supplant the old wet method. In related metallurgical industries the Cottrell electrical precipitator has been applied to the dry precipitation of dust and fume, where it has shown high efficiency and has effected great savings in values. This method, so successful in other industries, has already been applied to the blast furnace in

several instances. While it has been demonstrated as entirely applicable and is accepted as an ideal feature of new installations, it has not yet so impressed itself on the industry as a whole as to bring about its substitution for the present highly inefficient water-spray method. This cannot be regarded as anything less than a deferred consummation, for the arguments in its favor are unanswerable and, when realized, the great quantities of potash here available and now wasted will be recovered for agricultural use.

How great these quantities of potash are has been shown by thoroughgoing surveys by the division of fertilizer investigations of the Bureau of Soils, embracing an examination of the materials entering the blast furnaces of the nation—iron ore, limestone, dolomite and coke, and of the slag discharged therefrom—to determine the quantities of potash contained therein. These results may be summarized by the statement that for each ton of pig iron produced an average of 13 pounds of potash is charged into the furnace and 4.9 pounds evolved with the furnace gases. On the basis of a yearly production of 33,700,000 tons of pig iron for the nation, the amount of potash thus entering the furnaces is 222,900 tons (calculated to the hypothetical oxide of potassium, K₂O, or "pure potash"), of which 83,700 tons are there volatilized and liberated with the furnace gases, a quantity equivalent to 418,500 tons of the 20 per cent potash salts now commonly imported from Europe. The balance of 139,200 tons potash enters the slag and is discharged therewith. While the latter quantity, representing over 60 per cent of the total, would at first sight appear to be irreparably lost, it has been found that by the simple expedient of adding common salt to the furnace charge it likewise can be volatilized and driven from the furnace with the gases. Thus the present recoverable portion of 83,700 tons can be more than doubled by the adoption of an entirely feasible expedient, making a total potentially available from the blast-furnace industry alone of over 200,000 tons pure potash annually.

While a consummation of such magnitude is too much to expect as an immediate realization, the figures here presented serve to illustrate the importance of the problem involved and the nature of the reward accruing from its solution. At present seaboard prices such a quantity of potash would have a value of \$15,000,000 and would be practically equivalent to our present importations. However, the value of the product is only one point for consideration. Production cost is another and is vastly more important. Definite information on this point is not at hand, but data are available which show that such costs will not be such as to adversely effect this much-to-be-desired conservation, for it happens that economies to be effected in other particulars simultaneously are such as to neutralize any production costs. The installation and operation of the electrical gas-cleaning equipment is no greater than that of the water system, and is more efficient in point of thoroughness with which it functions. But of equally great importance is the conservation in heat which it effects.

As stated by Mr. Hohl of the Bethlehem Steel Company, the principal advantages resulting from the use of clean gas are: "Reduction in the cost of cleaning and repairing stoves; higher blast temperatures, resulting in lowered coke practice; increased output and cheaper pig iron, and saving in gas used by stoves, leaving more gas available for boiler and gas-engine use." And Mr. Diehl of the Duquesne Works has estimated that the increase in efficiency obtainable from thoroughly cleansed gases is equivalent to 16 cents per ton of iron produced.

It has been shown that in general practice from 10 to 14 per cent of all the heat generated within the blast furnace is carried therefrom by the gases evolved. In a blast furnace of a capacity of 500 tons per day, using 750 tons of coke, this heat is equivalent to from 75 to 100 tons of coke per day. Or, on the basis of tons of pig iron produced, the heat con-

served by a Cottrell precipitator, as contrasted with the old wet methods of gas cleaning, is equivalent to a saving of about 15 cents per ton (with coke at \$6 per ton). For the industry, then, producing 33,000,000 tons there would be an annual economy in this one item, expressed by the sum of approximately \$5,000,000—a simple statement illustrating the importance of adopting gas-cleaning methods which will conserve this very considerable quantity of heat.

Against such great economies as here represented no unworthy consideration should be permitted to prevail, and it is difficult to find any argument of sufficient weight to justify the perpetuation of methods which defeat this conservation. Competition within the industry should, and the rising price of coal will, force a conservation which is now regarded with no inconsiderable indifference. With the modification in equipment affording these economies will certainly come the further conservation represented by the recovery of the great tonnage of potash now annually thrown away.

What we have in mind with respect to this development may be illustrated by an analogous conservation, already realized, which makes available for American agriculture great quantities of that other essential of present fertilizer practice—namely, ammonium sulphate. The value of this product as a by-product of the coking industry has now become so well recognized and its production so well standardized that the coking of coal without by-products has almost disappeared and the yield of by-product ammonia has advanced from nothing to a yearly output of over 600,000 tons. America now exports ammonium sulphate, whereas a few years ago it imported a considerable portion of its requirements. What has happened in the coking industry it is our hope to see duplicated in the blast furnace, the cement, the alcohol and the sugar industries. The affirmative results already obtained in Government and private researches and in commercial plants already in operation convince us that this is an entirely reasonable expectation.

Where is the logic in continuing to go to Europe for our potash while we are throwing away as a waste product of our industries as much of this essential as we are importing?

South Produces All of Country's Bauxite.

In 1924 the production of bauxite, from which aluminum is made, was 346,553 long tons, valued at \$2,131,908, a decrease of 34 per cent in quantity and 32 per cent in value as compared with the domestic production in 1923, according to the Geological Survey. All of the bauxite mined in the United States comes from the South.

BAUXITE PRODUCED IN UNITED STATES IN 1923 AND 1924, IN LONG TONS.

Year	Domestic production	Imports	*Exports
1923	522,690	119,020	78,560
1924	346,553	201,974	77,065

*Largely bauxite concentrates.

DOMESTIC BAUXITE SOLD BY PRODUCERS TO INDUSTRIES IN 1923 AND 1924, IN LONG TONS.

Year	Aluminum	Chemicals and cement	refractories	Total
1923	380,520	68,870	73,300	522,690
1924	225,774	53,859	66,920	346,553

The production of bauxite in the Arkansas field was 326,616 long tons in 1924, a decrease of 167,264 tons as compared with 1923. The Eastern field decreased its output over 8000 tons, the production in 1924 being 19,937 tons from Georgia and Tennessee. No bauxite was produced in Alabama in 1924. The imports of bauxite in 1924 were 201,974 tons, an increase of about 70 per cent as compared with 1923, most of which came from the Guianas, South America, though some French and Dalmatian bauxite was received.

The city of Temple, Texas, N. A. Ensor, comptroller, has voted bond issues aggregating \$285,000, including \$210,000 for schools, \$50,000 for water and \$25,000 for paving.

Fertilizer From Coal.

By ROBERT STEWART, Ph. D., Dean, University of Nevada, Reno.

Henry Ford's offer to lease Muscle Shoals and his subsequent withdrawal of that offer has created universal interest in the combined nitrogen problem confronting American industry and agriculture.

His reported intention to manufacture fertilizer from coal has already created new interest in coal as a source of combined nitrogen for fertilizer purposes.

The possibility of coal supplying nitrogen in a cheap form so as to compete with that produced by chemical agencies from free-air nitrogen by aid of the electricity developed by water-power is one of vital interest to all concerned, and is worthy of very serious consideration.

All vegetation has a certain amount of nitrogen which has been obtained either from the soil or from the air by the aid of the nitrogen-fixing bacteria. The combined nitrogen in vegetation, accumulated during long periods of time, has resulted in large valuable deposits of nitrogen, which should be carefully used and economically conserved.

While all kinds of vegetation contains nitrogen, the amount varies very materially and is dependent on the kind of vegetation and its subsequent treatment. It varies from 0.30 per cent nitrogen in the wood of the pear tree to 2.30 per cent nitrogen in soy bean hay.

Sphagnum moss, for example, contains .64 per cent, leaves of peach trees contain 0.90 per cent, salt marsh hay contains 1.10 per cent. Vegetation, such as sphagnum moss and marsh grass, wood and leaves, has contributed to our reserve of combined nitrogen in coal and peat.

It is, therefore, true that the most important reserve of combined nitrogen today is found in coal of various kinds, such as anthracite, bituminous coal and lignite.

Coal is the fossilized remains of vegetation of former geological periods. In earlier geological times conditions on the earth were such as to give rise to an abundant growth of vegetation of great size which accumulated in certain favored areas. These accumulations of vegetation were partially decomposed and preserved in a manner somewhat similar to that taking place in the formation of peat beds today.

Climatic conditions favoring plant growth, such as temperature and carbon dioxide content of the air, were much more favorable for plant growth than at present. This was especially true during the carboniferous period, and also to a less extent during the cretaceous and tertiary periods. The trees, grasses, sedges and mosses grew to great heights and accumulated in immense masses in certain favored areas.

Later, such areas became submerged and buried beneath varying great depths of sand, silt and clay. The plant residues were subjected to immense pressure, which, together with decay, caused the material to lose its former structure and to assume that of the compact, black amorphous mass such as we find in our coal today.

Anthracite is fossilized vegetation which has undergone a more complete process of decay, and consists mostly of pure carbon, with some nitrogenous compounds.

Bituminous coal is not nearly so completely decayed as anthracite, and contains carbon, and also hydrocarbons and nitrogenous organic compounds.

Lignite is a very impure form of coal which has undergone the least decay, and contains many impurities, such as clay and silt.

Peat is the well-preserved remains of vegetation, consisting essentially of the mosses, especially sphagnum moss. It has been preserved because of its formation in or under water, which has prevented access of air, and by the formation of acids, which have prevented action by decomposing bacteria.

Silt is the finely divided particles of earth and plant mate-

rial which have accumulated at the mouths of large rivers, on the bottom of such rivers and in canals. The deltas at the mouths of rivers are formed largely from this sort of material.

The Form of Nitrogen in Coal.

The nitrogen in coal occurs there principally in the form of organic nitrogen, with small amounts of nitrate nitrogen and free ammonia. On destructive distillation, i. e., heating the coal in the absence of air, the organic nitrogen compounds are decomposed and the nitrogen is partially evolved as ammonia, which is collected as ammonium sulphate by passing it through sulphuric acid.

The most common source of ammonia is coal, from which it is obtained as a by-product of the distillation in the preparation of gas or coke. By by-product is meant a substance obtained in the operation of a specific process in addition to the substance primarily sought.

The fact that ammonia could be obtained in the distillation of coal has long been known. The first attempt to recover it was made in 1764, but the first satisfactory plant for its recovery was established at St. Denis in 1858.

The salts of ammonia have been known since earliest antiquity. Pliny, Hippocrates and Disorides mention "Ammonia-kenn." Herodotus refers to "hals ammoniak." The name ammonia, however, was given by Berthelott, who also determined its composition.

Since coal is the fossilized remains of vegetation of former geological periods, its nature and nitrogen content depends largely on its state of decomposition. There are three distinct forms of coal—anthracite or hard coal, bituminous or soft coal, and lignite.

The amount of nitrogen present in coal varies with the kind of coal. Anthracite consists of almost pure carbon, and hence contains few impurities, and is also poor in nitrogen.

The bituminous coal is not so completely decomposed as the anthracite, and contains hydrocarbons and other impurities, as well as carbon. It also contains considerable more nitrogen than anthracite. This is the more common coal in America.

Lignite is a very impure form of coal which contains considerable clay and other impurities. It is richest in nitrogen. The average nitrogen content of the various forms follows:

	Per cent nitrogen
Anthracite	0.1—0.5
Bituminous	0.5—1.5
Lignite	1.0—2.0

The Destructive Distillation of Coal.

Coal is submitted to destructive distillation for the production of gas or coke. In the production of gas for illumination or heating purposes, ammonia, tar and oil are valuable by-products, which may or may not be saved according to the method employed. Some operators save these substances, while others make no attempt to conserve them.

Coal also may be used for the production of coke alone without any attempt to save or use either the gas or other materials produced. In the production of coke there are two types of coke ovens—(1) the open beehive oven, where only the coke is saved, and (2) the retort or modern oven, where all the by-products are saved. Fortunately, the latter type is rapidly replacing the former.

When a ton of bituminous coal of good coking qualities is coked the following products are obtained:

Coke	1500 pounds
Tar	6-10 gallons
Mixed oil	1½ gallons
Ammonium sulphate	18-26 pounds

The average production of ammonium sulphate is 21.4 pounds per ton of coal containing 5.5 pounds of ammonia.

Only part of the nitrogen is recovered as ammonium sul-

phate. Part of it is given off as hydrocyanic acid, pyridene and the other complex organic nitrogenous compounds, while part is evolved as free nitrogen, and a portion still remains in the residual coke.

Bituminous coal is suitable for coking and the production of coke. Lignite is not adapted for coke production, but is suitable for gas production, and nitrogen thus may be recovered from lignite also.

Anthracite is already nearly pure carbon, and hence does not need to be coked. One-fifth of the American supply is anthracite, the remainder being mostly bituminous. Two-thirds of the Austrian and one-third of the German supply of coal is lignite.

The Amount of Available Coal.

Geologists estimate that there are 7,400,000,000,000 tons of measurable coal in the world on the land area and that there is fully as much more beneath the sea. Campbell and Parker estimate that in the United States there are 500,000 square miles of coal land containing 3,076,000,000,000 tons, and of this amount 1,922,000,000,000 tons is available and accessible for use.

This is equivalent to 19,000,000,000 tons of nitrogen, and represents a tremendous source of combined nitrogen and carbon which has taken untold centuries to accumulate. For example, in the atmosphere today there is only 700,000,000,000 tons of carbon, while in the coal there is 11,000,000,000,000 tons of carbon. Yet all of this carbon in the coal has been obtained by previous vegetation from the air.

We now have only 6 per cent as much carbon in the air as has been taken away in the production of the coal. Likewise, the combined nitrogen in the coal represents accumulations of nitrogen which has taken ages to accumulate. It should be recovered and utilized with great care as one of our most important resources.

The Production of Coal.

In the United States up to 1845 27,700,000 tons of coal had been produced. The production of coal since that time has increased markedly, as may be seen from the data below:

Year	In United States.	
	Annual production.	Tons.
1846		5,000,000
1850		7,000,000
1875		52,000,000
1900		270,000,000
1907		480,000,000

Similar increases have occurred in the world at large:

Year	In the World.	
	Annual production.	Tons.
1865		182,080,000
1875		290,000,000
1909		1,010,000,000
1910		1,143,380,000

In 1909 the production of coal was distributed throughout the various countries as follows:

Country.	Tons.
United States	397,000,000
Great Britain	268,000,000
Germany	217,000,000
Austria-Hungary	42,000,000
France	38,000,000
Belgium	24,000,000
Russia	24,000,000

The production of coal doubles every 20 years.

Possible Production of Ammonium Sulphate.

If all the coal which was produced in 1909 had been coked before using and the ammonium formed recovered, there would have been produced 11,800,000 tons of ammonium sulphate containing 2,500,000 tons of combined nitrogen. If methods had been employed in coking the coal so as to save all of the nitrogen present, there would have been produced 50,000,000 tons of ammonium sulphate, or 11,000,000 of nitrogen.

In the United States alone the possible amount recovered

would have been 4,208,000 tons of ammonium sulphate, or 800,000 tons of nitrogen, with the ordinary modern method used in coking coal. There is a sufficient reserve here to more than meet all of the demands for combined nitrogen if methods can be developed for its complete recovery. The opportunity here for service and profit is such as to attract the best brains of the country.

Actual Production of Ammonium Sulphate.

The first successful plant for the production of ammonium sulphate was established at St. Denis in 1858. In 1860 2000 tons of ammonium sulphate had been produced, and the production has increased rapidly since that time. In 1900 450,000 tons of ammonium sulphate was produced in the world, while in 1909 there was produced 950,000 tons, and during 1910 1,100,000 tons were produced containing 225,000 tons of combined nitrogen. The production of ammonium sulphate from coal in 1910 was distributed through the various countries as follows:

Country.	Quantity of Ammonium Sulphate.	
	Tons.	
Germany	383,000	
Great Britain	369,000	
United States	116,000	
Austria-Hungary	70,000	
France	57,000	
Belgium	36,000	
All other countries	69,000	
Total	1,100,000	

In Germany prior to the great war the production of ammonium sulphate was sufficient to meet all the demands for domestic production and leave a good margin for export. Eighty-five per cent of this ammonium sulphate was obtained from the by-product coke ovens. During the period from 1900 to 1910 there has been a rapid substitution of the modern retort oven for the old wasteful beehive oven. In 1900 only 30 per cent of the coke was obtained from the by-product oven, while in 1910 over 82 per cent of the coke was obtained from these ovens.

In Great Britain 168,000 tons of ammonium sulphate was obtained as a by-product in the production of gas, 120,000 tons were obtained from coke ovens, 60,000 tons were obtained from the distillation of shale, while 21,000 tons were obtained from blast furnaces.

The English have not made as much progress in the conservation of the ammonium sulphate by increased use of the modern coke oven as have the Germans. In 1900 only 10 per cent of the coke was coked in modern ovens, while in 1910 this had been increased to only 18 per cent.

In America there has always been a great waste of nitrogen from coal by the production of coke in the open, wasteful beehive oven. In 1900 only 5 per cent of the coke was produced in modern ovens, while in 1910 this had been increased to only 17 per cent. In 1910 a large number of modern coke ovens were constructed, with a considerable number since that time. In 1910 only 70,000 tons of ammonium sulphate was produced in the United States. Yet in 1914 only 32 per cent of the coal which was coked in modern ovens, i. e., only 32 per cent of the possible ammonium sulphate was recovered.

The amount of ammonium sulphate produced in the United States in 1915 was 220,000 tons. There is much which can yet be done in increasing the production of coke in modern ovens constructed to conserve the combined nitrogen.

Probable Future Amount of Nitrogen.

In 1924 it was estimated that there would be a maximum possible production of coke of 38,000,000 tons, which would require 53,500,000 tons of coal.

The yield of ammonia varies from 4½ pounds per ton to 6½ pounds per ton. Probably five pounds of ammonium per ton, equivalent to 19.4 pounds of ammonium sulphate, is quite close to the actual yield obtained.

On this basis the 53,500,000 of coal coked in 1924 would

yield 135,750 tons of ammonia, equivalent to 535,000 tons of ammonium sulphate.

In 1915 the United States Geological Survey reported a total production of ammonia from gas works of 12,900 tons of ammonia. In 1917 the production was 11,400 tons. During the eight-year period from 1912 to 1920 it varied from 10,000 to 13,000 tons. The probable production in 1924 was 15,000 tons of ammonia, equivalent to 60,000 tons of ammonium sulphate.

The total probable production of ammonium sulphate from coal, therefore, in 1924 is 535,000 tons from the by-product coke ovens and 60,000 tons as by-product from gas works, or a total production of 595,000 tons.

The production of ammonium sulphate from coal, of course, will increase with the consumption of coal, especially for the production of coke and gas. It will probably increase at a more rapid rate than the population. Better methods of production of coke and gas so as to obtain larger yields of combined nitrogen will also result in increased returns of combined nitrogen from coal.

There are big future possibilities in the production of nitrogen from coal, especially in the better production of gas, conservation of nitrogen when coal is used in metallurgical processes and with the universal use of the retort oven for production of coke. Herein lies great future possibilities for the mechanical genius of Henry Ford's type.

The per capita consumption of coal in the United States is 5.5 tons. One-fifth of this is anthracite and hence not suitable for ammonia production. If the remainder, 4.4 tons, were coked before using it would yield 20 pounds of combined nitrogen. The actual yield is only 0.6 pound per capita. The per capita consumption of combined nitrogen in normal times is 2.84 pounds.

It is possible, therefore, for the production of ammonium sulphate from coal to fully meet the demands for combined nitrogen, provided proper methods of utilizing the coal are practiced and the ammonia is produced at a sufficiently low unit cost of production so as to successfully compete with that obtained from other sources, as Chili sulphate and the chemical fixation of atmospheric nitrogen.

Extensive Building Activity at Asheville.

Asheville, N. C., April 17—[Special.]—A new high mark for building permits was set during the month of March with a total of \$1,345,850. This figure does not include the separately incorporated areas of Biltmore, South Biltmore, Biltmore Forest, Kenilworth, Grove Park, Grace and Beaver Lake, in all of which considerable building is under way. Permits were granted during the month for a 150-room hotel to be erected by the Asheville Hotel Company, at Woodfin and Market streets, at a cost of \$400,000; a seven-story office building on Battery Park place, by L. B. Jackson and C. N. Malone, at a cost of \$300,000; two apartment houses and 62 dwellings. Two warehouses and a transformer house and about 10 store buildings have also been issued permits.

In addition to these items, a 40-room apartment house is under construction. Building in Kenilworth was placed by an official of that municipality at over \$200,000 for the month, and the other suburban areas are building in proportion.

New Home Development Near Baltimore.

A new home development at Catonsville, near Baltimore, is being planned by Baltimore capitalists, who have purchased 50 acres of land through the office of J. Kearsley Kearney & Co. of Baltimore. Tentative plans call for the construction of roads and streets, installation of water, light and sewerage facilities, and the erection of a number of residences of individual design. Details have not been determined.

\$2,000,000 Courthouse and City Hall at Miami.

A. Ten Eyck Brown, architect, of Atlanta, Ga., has been engaged to prepare plans and specifications for a combined courthouse and city hall at Miami, Fla., to be erected at an estimated cost of \$2,000,000. The building will be 26 stories high, with a crowning pyramid of three additional stories.



MIAMI'S NEW COURTHOUSE AND CITY HALL AS IT WILL APPEAR WHEN COMPLETED.

The base will be 165 feet square and the tower 107 feet square, of steel frame construction, with granite base, concrete and tile floors, and granite and terra cotta exterior.

Accommodations will be provided for all city and county offices, as well as for courts and jails. Eight high-speed elevators will be installed to serve the offices and two low-speed elevators for the jails. August Gelger of Miami is associate architect, and working drawings are expected to be ready about July 1.

Contracts for \$500,000 State Building.

Raleigh, N. C.—Contracts have been awarded by the Committee on Public Buildings and Grounds for the completion of the new State Department building, for which the legislature authorized an appropriation of \$500,000 in 1924. W. T. Rose & Co., Goldsboro, secured general contract at \$288,000, while contract was awarded at \$9564 to Hunt Bros., Greensboro, for plumbing, and at \$11,025 to B. McKenzie, also of Greensboro, for heating. Steel work has already been completed, contracts outstanding involving about \$130,000.

The building, which was primarily intended for the State Department but transferred to the Department of Revenue, will be about 100 by 150 feet, five stories and basement, steel frame and stone exterior, marble, concrete and hardwood floors, and tile and composition roof. Atwood & Nash, Inc., Chapel Hill, N. C., are the architects and engineers.

The World Awaits the Southern Exposition.

Active interest of the South in the Southern Exposition, to be held in New York, May 11 to 23, has developed into real enthusiasm, according to reports from many sections in the last few days. At the same time reports from the Exposition New York headquarters, corroborated by articles in Northern and Eastern newspapers, indicate that those sections look to the Exposition as an opportunity to become acquainted with the South and its achievements, possibilities and advantages.

Based on the records of other expositions in New York and on the interest expressed there in the Southern Exposition, it is estimated that at least 100,000 persons from all sections of the country and from many parts of Europe will visit the South through this sectional show, few of whom would have had opportunity to make a railroad or sea trip to the South. Estimate has had it that half a million "outsiders" are registered every day in New York throughout the year; these visitors from all sections and from abroad are said to support the scores of theaters in the metropolis and the various "shows," both local and general; to form probably 90 per cent of the visitors to the art galleries, the "zoo" and the other places of interest, and a large percentage of these "outsiders" will form a substantial part of the daily attendance at the Southern Exposition. The Exposition will attract not only New Yorkers but also strangers within the gates by thousands.

And as far as is possible the setting of the Exposition will be characteristic of the South, and even the climate will be depicted in a manner which will visualize it to the visitors.

In realization of the world-wide importance of the cotton industry, from growth to distribution, the New York Cotton Exchange has arranged to co-operate with the Exposition managers and already has engaged space for a unique display. From the field to the store counter, virtually every step in the transformation of cotton from the seed to the finished fabric will be shown by Southern industries, and also closer contact between Northern and Southern business men interested in cotton will be established at this meeting point of mutual interest.

Another great factor in the development and prosperity of the South—unexcelled water-power—will be pictured by great hydro-electric corporations, such as the Southern Power Company, the Alabama Power Company, the Georgia Railway & Power Co. and the Tennessee Electric Power Company.

Also there will be exhibits of petroleum in its various stages, the many kinds of lumber and minerals that form so great a part of the South's wealth of resources, and the fur industry, with others in a tremendously wide variety of lines.

Truly Southern, it is planned, will be the atmosphere of the Georgia & Florida Railway exhibit, suggestive of the territory through which it runs. This booth will be of rustic construction, while growing shrubs, palms, banana trees and vines, as well as a load of Satsuma orange trees, are being transplanted from their native South to lend a distinctive air to the display. In a comprehensive exhibit of cotton will be a miniature cotton field, cotton in the bale, loose lint, as well as cottonseed and the many by-products. A typical touch of atmosphere will be given by Southern negroes, old and young, seated amid the cotton, singing and playing the banjo in the old-fashioned way.

Among the sweets exhibited within this booth will be "the highest priced box of candy in the world," which is

now in the making by the Hollingsworth Candy Company of Augusta. Quite as sweet will be honey, both strained and in the comb, while a hive of busy bees will be on the job of making more honey every day during the Exposition. Other tempting edibles will include all manner of agricultural products, fresh vegetables, papershell pecans and peanut products numbering 30 or more.

As a feature of the educational development of the South, the Woodrow Wilson Memorial College, now being built, will be shown in a painting to be hung by the Valdosta (Ga.) Chamber of Commerce, with a representative in charge to give any information required.

Announcement comes that Macon, Ga., has decided to present an exhibit which will represent the industrial, commercial, agricultural and educational phases of the city of Macon and will cover a space of 670 square feet on the main floor of the Grand Central Palace. Industrial houses of Macon have taken 470 square feet of this space, and the city of Macon proper, represented by the Macon Chamber of Commerce, will occupy 200 square feet. An effort will be made in this space, which represents the city as a whole, to give a cross-section of the city.

Arthur H. Peavy, general manager of the Chamber of Commerce, is in charge of the exhibit, and will leave Macon May 3 to superintend the placing of the exhibit and to demonstrate it during the Exposition.

Forming the center of the exhibit by the Commissioners of the Port of New Orleans will be one of the most complete models ever seen of this important Southern port and city. Wharves, grain elevators, warehouses, ship-repair plants, industrial plants, streets, parks, public buildings and railway lines will be shown, and "even the blue-gray of the water, the stone and brick of the buildings and the green of the trees and grass will be followed out to the most minute detail."

Florida in all its aspects, especially views of its industrial possibilities, will be presented in fine style, the Florida Society of America having been among the first Florida organizations to become interested in the Exposition, and besides contracting for a large amount of space it is being instrumental in bringing about the entry of various other Florida interests. This organization, in addition to taking space, will display the society's official publication, the Hollywood Magazine, and also will advertise the Florida Industrial Contest, a competition offering \$20,000 in cash prizes for the names of products best adapted to Florida's requisites for manufacture. The society also will advertise extensively in New York and other large Eastern papers at the same time. The society is expected to spend at least \$40,000 directly contributory to its exhibit in New York, but "not one cent of this amount will be used to advertise Hollywood as a development."

The Southern Exposition also will serve as a great medium for introducing to the public the Florida Industrial Contest, which has for its purpose the building of the state's industrial future. In addition to a first prize of \$10,000 in cash, second and third prizes of \$4000 and \$1000 are also offered. Various other cash prizes will be given over three contest periods ending June 1, October 1 and January 1 for the best suggestions received in each of those contest divisions.

An invitation to manufacturers of western North Carolina to participate in the Exposition has been extended by the Asheville Chamber of Commerce, which has reserved 1000 square feet on the first floor of the Exposition building and

offers this space free of charge, together with all facilities for arranging and displaying the exhibits to all firms of the section interested. If necessary, it was stated, this footage will be increased so that all concerns desiring to exploit the resources of this section may be represented.

The first manufacturer of that section of the state to avail itself of this offer was the Hans Rees Tannery, applying for 12 by 20 feet to display leather goods and by-products. The first native industry was the Allanstand Industries, which will show hand weaving and basket work. Decorations will be handled by the organization and a representative will be on hand to conduct the display.

A special display of western North Carolina will be put on, the piece de resistance being a scenic oil painting of the mountains of the section, the picture measuring 5 by 78 feet.

Florists of Asheville have been urged to proffer suggestions to the Chamber of Commerce as to a fitting system of decoration for the North Carolina exhibition, utilizing native flowers and plants. The producers of the Exposition have ruled against cut flowers, so only growing plants and shrubbery can be used. It is believed that a unique and arresting scheme can be evolved by displaying plants peculiar to that section.

The North Carolina Geological and Economic Survey is to assist in the preparation of an exhibit of minerals and natural resources of that section, and this is expected to attract considerable attention, and the hydro-electric resources will be stressed and an effort made to interest Northern promoters in the mountain streams of western North Carolina. Several reels of films of scenic beauties of that section have been made and will be run daily.

The special committee handling the Greenville (S. C.) Chamber of Commerce exhibit has arranged definitely for the type of exhibit which it will prepare. John W. Arrington, a member of the committee, voluntarily subscribed \$300 in addition to the amount appropriated by the Chamber of Commerce in order that the organization might have 200 square feet of space instead of 100. Chairman Roger Huntington will be assisted by Mr. Arrington, Edwin Howard, Bruce Moran, George Wrigley, in addition to L. Mell Glenn, who was selected by the committee to attend to the details and to the official representative of the Chamber of Commerce at the show, Mr. Glenn having arranged with the Alumni Association of Furman to be relieved of his duties 10 days in May, while the Chamber of Commerce will relieve him for a like period after his term of office begins with that organization on June 1. Other members of the committee are G. E. Hatch, Brandon Mills; George Harrison, Victor-Monaghan Company; H. E. Butterworth, Butterworth Company; Edgewood Beattie, Southern Franklin Process Company; Hampton Smith, Steel Heddle Manufacturing Company; R. S. Huntington, Huntington & Guerry.

Plans are shaping up for the Johnson City (Tenn.) exhibit at the Exposition, and a committee from the Chamber of Commerce, under the chairmanship of B. W. Horner, working from the basis of a fund raised by the Chronicle and Staff-News, is securing data, suggestions and material to make the exhibit one which will best reflect the many advantages of Johnson City and vicinity.

The Oklahoma City Chamber of Commerce is making a special effort to persuade Oklahoma manufacturers to place exhibits in the Exposition, and B. F. C. Morris of the Morris Manufacturing Company, who will exhibit there, has been appointed chairman of a special committee to arouse interest of Oklahoma manufacturers in exhibits. Governor Trapp is an honorary vice-president of the Exposition.

Alabama Especially Fortunate in Its Progressive Exposition Committee.

When the Alabama committee on the Southern Exposition was appointed, every man in the country who knew these men and their standing knew that Alabama would be adequately represented. If it had been possible to secure men of the same kind of mettle, stamina and enthusiasm for every community in the South as the members of this committee, there would be no laggard states. The members of this Alabama committee, as previously reported, are: Theodore Swann, president of the Federal Phosphorus Company, chairman; George Gordon Crawford, president of the Tennessee Coal, Iron & Railroad Co., one of the biggest subsidiaries of the United States Steel Corporation; Col. R. A. Mitchell, vice-president of the Alabama Power Company; Robert Jemison, Jr., president of Jemison & Co., Inc., leading real estate investors, mortgage loans and investment bankers; L. Sevier, president of the Associated Industries of Alabama, and Donald Comer, cotton manufacturer.

The enthusiasm with which these men have been carrying on their work is illustrated in the facts, previously noted, that they have arranged to pay the expense of transferring the entire mineral exhibit of Alabama, now at the University of New York, and that Mr. Crawford has underwritten the expense of 500 feet of space in which the University of Alabama will make a display, and the Alabama Power Company has underwritten an equal amount in order to enable the Polytechnic Institute of the state to make an exhibit. What a wonderful thing it would be for the educational work of the South and for every interest in this section if there were other organizations which, with equal broadness and liberality, would do the same thing for the educational institutions of their states!

The Alabama newspapers, day after day, are giving full attention to what the state committee is doing. The Age-Herald of Birmingham on April 15 gave the following statement from Chairman Swann:

"The advantages of the Exposition from an Alabama viewpoint may be pointed out as follows:

"1. To interest Northern capital in our industrial plants, in our public-utility companies, in our state, municipal and other bonds, in buying our lands, etc. Alabama will have a most unusual opportunity through this Exposition to show the many opportunities for profitable investments. If its exhibit is carefully planned, it should bring to the state millions of needed dollars that it might otherwise take years to secure.

"2. To attract to Alabama business men interested in various lines of manufacture and commercial enterprises who may become interested either in opening new industrial plants or establishing branch factories and stores.

"3. To interest Northern capital to invest in and develop our agricultural, horticultural and grazing lands, and also to interest the desirable foreign-born who came from agricultural lands across the sea and who are seeking information along these lines.

"4. To show our wonderful rail and water transportation facilities and the effective reach to all parts of the nation.

"5. To exemplify the greatness of our financial institutions and our super-educational institutions.

"6. To give those interested in our mines, timber, clay, rolling mills, fisheries, phosphates, quarries, agricultural products, etc., the greatest market in the world.

"7. To give to our manufacturers and merchants not only a chance to show the diversity of products made and offered here and the big volume in which they are produced, but also to give a practical opportunity for both manufacturers and wholesalers to make sales and achieve actual business at the Exposition."

Not only in Birmingham is the Exposition receiving

prominent attention from industrial leaders, according to committeemen, but also in other sections of the state, particularly in north Alabama, which, to date, has not taken what is believed its share of space. C. W. Ashcraft of Florence inquired by long-distance telephone regarding allotment of space in the Exposition, and civic leaders of Sheffield already have promised that their city will be represented.

The Birmingham News reports that the Sheffield-Tuscumbia Chamber of Commerce has asked for more space than had been allotted to the Muscle Shoals district, with a statement that it is proposed to exhibit a chart of the Wilson dam, 13 feet long and four feet high, and group other exhibits around that.

In Alabama enthusiasm on the Southern Exposition is sweeping over the state, and the reasons for this, as given by Mr. Swann, should stimulate the people of every other state. Certainly, in the light of what these men are doing, it must be a rather narrow-minded view when any other business man in the South can feel that his state or his community can afford not to be represented. It would be well-nigh impossible to gather in any state in the South a committee as strong, measured by the work which its members have been doing for years in the upbuilding of Alabama, as the Alabama committee. These are men who do things, men whose achievements have been largely responsible for creating the enormous development of Alabama. Their example should be a stimulation to every other man in the South who has any ambition for his own state.

South Carolina Stimulated by Strong Endorsement of Governor McLeod.

Governor Thomas G. McLeod of South Carolina has endorsed the Southern Exposition most heartily in a letter to Earle Mauldin of Greenville, executive secretary of the South Carolina committee. The letter is as follows:

"Knowing of your interest in the Southern Exposition and your activity in its behalf, I am pleased to present to you my views on this very important undertaking. I have observed with a great deal of interest plans for the Southern Exposition, and have noted with much pleasure the nationwide significance that the Exposition has assumed.

"Without question, it should be one of the most important milestones in the history of the South's remarkable progress. The principal purpose of the Exposition is to advertise the resources, development, opportunities and progress of the South to the world. The Exposition affords to the business enterprises of South Carolina and every state in the South an opportunity to take part in a tremendous co-operative effort to demonstrate the South's opportunities and resources.

"It is an accepted fact that the South is not known as it should be known, and is not properly appreciated. This Exposition will accomplish much toward eliminating ignorance and misunderstanding concerning the South, and will focus the eyes of the world on the opportunities that lie south of the Mason and Dixon line.

"South Carolina will have a creditable exhibit at the Exposition, and the state will certainly benefit in a large measure from the advertising gained thereby. The industrial leaders and big business men of our state cannot help but realize the tremendous benefit that will come to the state through the attraction of new capital, new enterprises and a proper appreciation of our resources. I sincerely hope, therefore, that the Southern Exposition will have the cordial support of not only the business men of our state but of our citizens at large."

Anniston (Ala.) Enters the Exposition.

Decision that Anniston, Ala., shall be "advertised to the world through the medium of the Southern Exposition" was reached at a meeting of the board of directors of the Chamber of Commerce, which, on motion by Theodore Swann, chairman of the Alabama division, determined to take 600 square feet of space on condition that the Federal Phosphorus Company and the Southern Manganese Corporation pay for 200 square feet of the allotment. Mr. Swann is president of the Federal Phosphorus Company, and under his leadership that corporation, the Southern Manganese Corporation and the Federal Carbide Company will contribute \$600, making one-third of the \$1800 required for the 600 square feet.

According to an article in the Anniston Star, interest in the Exposition is spreading in the state, and other cities in north Alabama are inquiring about allotments similar to the one Anniston has taken. The "Model City," however, is believed to be the first city in north Alabama to give assurance that it can be counted on for its support.

It is understood that Florence and Sheffield are making definite plans to enter products from their cities in the general display.

Anniston to Have Liberal Exhibit Space.

[From the Anniston Star.]

Anniston is to have representation at the Southern Exposition in New York next month with an exhibit space of 400 square feet. This action of the Anniston Chamber of Commerce is a public-spirited and progressive one, and places Anniston in position to share with other Southern cities in attracting the attention of the thousands of Exposition visitors with a display that will enable the world to see what Anniston has and what it is doing.

No space either in Anniston or the Alabama allotment should be permitted to go to waste. A splendid showing of Anniston's manufacturing and commercial importance and the opportunities this city offers for varied industry can be, and will be, made at the Exposition, and this, coupled with the comprehensive displays made of Alabama's mineral and agricultural wealth, will do much to bring capital and good citizens to this city and state.

Every foot of space allotted to Alabama in the Southern Exposition in New York should be taken and every available resource of Alabama should be displayed there. The opportunity for letting the world know what Alabama has and what Alabama has done in the way of development is one that Alabama cannot afford to let pass. It is stated that more than 2000 feet of the total space allotted to Alabama still is untaken by Alabama cities and towns. This untaken space, if allowed to remain untaken when the Exposition opens next month, would be a reflection upon the towns of Alabama. It would be a void that Exposition visitors would notice and comment upon.

May 19 has been definitely set as "Alabama Day" at the Exposition. On that day it is expected that Alabama as a state, Alabama's progressive cities and towns and Alabama's enterprising firms and corporations will make such a showing that the throngs in the Exposition hall will marvel at the resources and progress of the state. On that day also Alabama should have a great delegation of boosting citizens at the Exposition. It will be a day for emphasizing Alabama's advantages.

Mr. Theodore Swann, chairman of the Alabama Exposition Committee, says one of the features of the display made by this state will be a showing of the Alabama products that are exported, and that the value of the port of Mobile to Alabama's export business will be emphasized. With Alabama mineral exhibits gathered and arranged by the University of Alabama and displayed in space provided by the Tennessee Coal, Iron & Railroad Co., the agricultural exhibits of Alabama arranged by the Alabama polytechnic Institute at Auburn and displayed in space provided by the Alabama Power Company, the state's natural resources will be splendidly shown. In addition there will be opportunity for Alabama towns to show what they have to offer and for Alabama manufacturing concerns to make a showing of their products, so that the whole will be an exhibit that will attract the favorable attention of all visitors and result in great benefit to the state and to each Alabama exhibitor.

To Exhibit Alabama Agricultural Resources.

Auburn, Ala., April 20 [Special].—The agriculture and agricultural possibilities of Alabama will be fully displayed at the Southern Exposition in New York city, May 11 to 23. Jesse B. Hearin of Montgomery, secretary of the Alabama division of the Southern Exposition, has requested a special agricultural exhibit, and the extension service staff of the Alabama Polytechnic Institute, Auburn, is now engaged in collecting and preparing it.

L. T. Wells, who has had wide experience with fairs and expositions, has been placed in charge of it by Prof. L. N. Duncan, director. He is now assembling agricultural products of all kinds from every section of the state. The plan is to make it thoroughly representative, although the Exposition is being held at a season of the year when it is most difficult to prepare an exhibit of Southern agricultural products.

The central thought of the Alabama exhibit will be that of featuring the large number of agricultural products produced in this state and stress at the same time agricultural opportunities. A strenuous effort is being made to collect exhibits of as many products as possible which were grown on one farm. Mr. Wells has been assured already the co-operation of farmers who have such products on hand, and he expects to obtain others before the exhibit is complete. The aim will be to show that agricultural opportunities in Alabama are second to those of no other state.

Miss Agnes Ellen Harris, dean of women and state home demonstration agent, is chairman of the committee which is preparing an exhibit of home products. Under her direction, home products, largely those of the home demonstration women and girls, will be displayed in an effective way. The county home demonstration agents throughout the state have been requested to send in their products, and a very attractive exhibit is assured.

The Alabama Power Company has placed 500 feet at Auburn's disposal, and the farm section of the Chamber of Commerce, Montgomery, has increased it to 700, which is regarded as sufficient space for a very fine exhibit.

The Western North Carolina Exhibit.

[From the Asheville (N. C.) Citizen.]

Announcement that western North Carolina, under the management of the Asheville Chamber of Commerce, is to have a 1000-foot-of-space exhibit in the Southern Exposition in New York next month is stirring news. In addition to the invaluable advertising thus assured the industries and products of our mountain counties, another probable advantage of it is that this action will inspire other cities and sections of North Carolina to follow suit.

Every state in the South will be represented in the Exposition in the Grand Central Palace. The biggest corporations and the most progressive and influential men in the South are enthusiastically behind the "show window of the South." The minority who were disposed at first to hang back in order to see who else would go in are rapidly falling into line. From Maryland to Florida and Texas the enthusiasm grows.

Although the final details of the western North Carolina display have not been determined, the Asheville Chamber of Commerce, working through its manager, Mr. F. Roger Miller, has had its tentative plans drawn for a good while. Some of the leading manufacturers of this section have already proclaimed their purpose to give their industries ample space. There is also to be a comprehensive exhibit of our mineral wealth and possibilities. Owing to the time of the year chosen for the Exposition, the exhibit of western North Carolina will be more industrial than agricultural. However,

the plan is to make the display as comprehensive and impressive as is humanly possible.

Magazines and newspapers of the North, East and West will have much to say about the South's showing in the Grand Central Palace. The amount of publicity thus created for the benefit of the Southern states is only to be guessed at, but it will be tremendous. It will result in the rest of the country's learning that in this section are located the biggest pulp and paper mill in the country, the largest crude drug plant in the world and one of the world's biggest abrasives plants.

The nation will be brought to perceive that western North Carolina presents unsurpassed opportunities for manufacturing capital and enterprise. If the whole state will go into the Exposition, so much the better. Here is an opportunity for state advertising which will not be equaled again for a long time.

Louisiana at Work for Exposition Fund.

[From the New Orleans Times-Picayune.]

The Southern Exposition will be held at the Grand Central Palace, New York city, May 11-25 next. Months have been given to its preparation. Dozens of Southern civic organizations, industrial concerns and public-spirited individuals are co-operating in this project to assemble and present at New York a display of the products and resources of the Southern states that will enable the Exposition visitors to visualize the progress achieved by the South in all material ways during recent years. Southern agriculture, mining, manufacturing and commerce will be represented. Each Southern state will have its own exhibits and its own "day."

For Louisiana, Governor Fuqua has issued a proclamation commanding the Exposition and urging Louisianians to see to it that their state is adequately and effectively represented. A statewide committee, headed by Leon I. Kahn of Shreveport, has been actively enlisting exhibits and support. New Orleans has a general committee of its own, with Gen. Allison Owen as chairman. The preliminary work is well in hand.

There remains to be completed, however, a fund to defray the actual expense of maintaining the Louisiana exhibits, advertising them properly and meeting other necessary costs. No state funds are available for this purpose and our legislature does not meet in regular session until next year. The necessary sum must be raised, therefore, by popular subscription.

New Orleans is asked to contribute \$20,000 to this fund. Our ambitious Southern neighbor, Atlanta, has raised that amount for a municipal exhibit. The South Atlantic port of Baltimore is planning an ambitious exhibit. Other states and other cities are working hard to capture the Exposition honors. Louisianians should see to it that Louisiana takes her rightful place and rank at the head of the Exposition table. And New Orleans, principal port and city of the South, should not be compelled by lack of local interest, co-operation and support, to take the Exposition "dust" of lesser Southern cities which aspire to Southern leadership and are preparing to make the most of the opportunity offered at New York to focus national and international attention upon their growth, development and opportunities.

The appeal of the representative New Orleans committee for the funds needed to enable New Orleans to take her proper place at the Exposition as "the leading city of the South" should win prompt and adequate response. The fund must be completed quickly. The Exposition's opening date is a little more than a month away. The time to co-operate by a contribution to the cause is right now.

Should Be Broadly Representative.

[From the Greenville (S. C.) News.]

The communication from Mr. W. G. Sirrine, who is now in New York, advising that the success of the Southern Exposition has been assured by the participation of patriotic railroads of the South and by practically all Southern states, is extremely good news. It is strange that an exposition of such scope and possibilities should find support withheld in any particular, but such has been the case, and it is pleasant to know that much of it has yielded. What a tragedy if an initial effort to display evidence of the South's progress to the nation's largest city should have been a failure! Mr. Sirrine is to be congratulated upon the success he has attained in awaking laggards to the necessity of making the Exposition the best of which the South is capable.

Enthusiastic for Coastal Highway.

IMMENSE VALUE OF PERMANENT HIGH ROAD FROM NORTH TO SOUTH POINTED OUT TO DELEGATES AT MEETING IN JACKSONVILLE.

Tremendous impetus to the movement for the construction of a hard-surface highway from Washington, D. C., to Homestead, Fla., and on to Key West was given at a meeting of the South Atlantic Coastal Highway Association at Jacksonville last Thursday and Friday. Over 300 delegates were present, some attending from as far north as Boston, Mass., with numbers from all the South Atlantic states and some from other parts of the country.

In realization that such a highway would prove of almost inestimable value to the entire South, as well as to the individual communities and states through which it will pass, the delegates discussed details of the project from a close, practical viewpoint. At a luncheon at the Chamber of Commerce, Harvey Granger of Savannah talked on "Bond Issues for Building Highways," and cited a recent bond-issue election in the six seaboard counties of Georgia, which resulted in assurance that the Georgia link of the South Atlantic Coastal Highway would be completed. The highway from an engineer's point of view was discussed by Lieut. Col. Gilbert A. Youngberg, U. S. A.

At another session, W. R. Secker, president of the Atlantic Coastal Hotel Men's Association, spoke of the deep interest of that group in the great highway, and Clement S. Ucker of the Seaboard Air Line Railroad told how the highway will serve to develop the waste lands along the coast.

In the course of his annual report on the progress and work of the Association, President F. O. Miller said:

"I am making my annual address with a stronger and more unwavering belief in the ultimate consummation of the South Atlantic Coastal Highway than ever before, for with the marvelous progress that has been made along all lines in the past 12 months, together with the stupendous undertakings now well under way and which all will be completed this year, the vision of a few men of less than half a decade ago is about to be realized in all of its beauty and splendor.

"I refrain from making you a lengthy address and going into the details of the projects on this great highway already finished and the details of those under way, but I can truthfully assure you gentlemen that we have made bigger strides in completing more projects, hard-surfacing longer stretches of highways, building permanent concrete bridges, have had passed most favorable legislation than any other highway in the United States, and if that be true, as it is, we have made more substantial progress in the last 12 months than any highway under construction in the world.

"This should not only be intensely interesting to you, but it should be both encouraging and gratifying, particularly to those of you who have had an active part in this great undertaking."

Described as "one of the most important actions of the convention" was the adoption of a resolution insisting on the beautification of the Coastal Highway, which, "connecting the North and South, possesses splendid possibilities for cultivating friendly relations between those two sections," as the introductory paragraph phrased it. The highway, it was felt, should not be constructed simply "to reach some place quickly," but also to develop "social intercourse with our neighbors and to attract them by the appeal which the highway itself would make." The South Atlantic Coastal Highway, "the historic route," it was felt, is peculiarly adapted to "restful, retiring associations," and it was suggested that each county or road district form a beautifica-

tion committee to devote its energies, in co-operation with other organizations, to the following purposes:

1. The creating of community enthusiasm for things beautiful and historic.
2. To prevent "the unsightly appearance in many places of incongruous and repulsive patent-medicine advertisements and signboards and of other kinds and classes of business."
3. The development of attractive tourist camps, with sanitary conveniences and well-arranged facilities.
4. That throughout the length of the Coastal Highway the road authorities be advised to establish highway rights of way, 100 feet at least in width, "which would forever constitute sufficient width for future city traffic throughout its entire length, as well as lending sufficient space for proper and uniform beautification endeavor."

An interesting note was struck by Fred G. Warde of Brunswick, Ga., when he declared that Jacksonville and the other cities on the great highway have as yet no realization of what the paved road along the coast means. Speaking on "A Two Hundred Million Dollar Tourist Crop," he declared:

"You people of Jacksonville profit \$14,000,000 annually by the tourists who pour through your gates. This is nearly accurate and as conservative an estimate as can be obtained. I tell you that this highway means \$50,000,000 a year to you in tourist traffic alone."

Besides committee meetings, various state conferences were held and a large amount of practical detail work was transacted and outlined. Complimentary resolutions on the good work of Secretary S. H. Walthall of the Jacksonville Motor Club were adopted, reciting his "active and valuable aid in promoting the highway."

After a stirring contest between Norfolk, Va., and Wilmington, N. C., for the privilege of staging the next convention, Wilmington won.

Mr. Miller was re-elected president of the association without opposition, and Fred G. Warde of Brunswick, Ga., was re-elected secretary.

Establishment of a South Atlantic Coastal Highway magazine was suggested by Dr. J. W. Simmons of Brunswick in an address which was generally approved, but the matter was left to the discretion of the executive committee.

United States Senator Duncan U. Fletcher, who has been most active and helpful in the highway movement, and Representative William J. Sears of Kissimmee were among the speakers at the convention.

Following the meeting President Miller announced that he would call the executive committee together in the near future, probably at Wilmington, N. C., to consider business that has arisen as a result of the convention. A decision on the establishment of a South Atlantic Coastal Highway magazine will be made then, he said.

"This has been the most enthusiastic convention we ever have held," said Mr. Miller. "I am delighted with it, and I know that it has accomplished a world of good."

The delegates were entertained with automobile rides around the city and to Jacksonville beaches and with other entertainments during the convention.

Engineers for Improvements at Newton.

Newton, N. C.—Spoon & Lewis, consulting engineers, of Greensboro, have been retained as engineers for the proposed extensions of water and sewerage systems in this city, and for sidewalk and street improvements. Preliminary surveys will be started at once.

Electricity En Route to Agriculture.

By P. O. DAVIS, Auburn, Ala.

It may be that farmers of this generation will not prepare their land for planting, plant the seed, cultivate and harvest crops with electric power, but it is entirely probable that a great many of those who now till the soil will use electricity for stationary power purposes, for lighting their barns and houses, and for numerous other duties now performed by electricity in urban homes.

This is the gist of the opinion of agricultural and electrical engineers of the experiment station of the Alabama Poly-

technic Institute, Auburn, and engineers of the Alabama Power Company who are now engaged in investigation and research work to find ways and means of carrying hydro-electricity to agriculture and into rural dwellings.

These agencies and organizations are: The American Farm Bureau Federation, the United States Department of Agriculture, the United States Department of Interior, the National Electric Light Association, the Power Farming Association, the American Society of Agricultural Engineers and the state agricultural colleges. This combination is known as the Committee on the Relation of Electricity to Agriculture, having headquarters in Chicago, with Dr. E. A. White in charge.

The work in Alabama was outlined in the main by Prof. M. L. Nichols of the Alabama Experiment Station, who has general supervision of it. E. C. Easter, a trained agricultural and electrical engineer, is in immediate charge.

As in other states, Alabama approaches the problem from two angles, as follows:

How can electricity be supplied to the farmer and what is involved in doing so?

How can it be utilized by the farmer so that it will be profitable to him and bring added comforts and personal satisfaction to him and his family?

Announcement in the press of this investigation brought numerous requests from farmers in all sections and from a large number of Alabama counties for work. It was conclusive evidence that the farmers and their families want hydro-electricity. It was assurance on their part that they were ready and anxious to co-operate in order to obtain the information, and finally to obtain electric service.

During the first year over 30 communities were surveyed by Mr. Easter with a view to building rural lines and starting investigational work. By December 1, 1924, 27 rural lines



COWS MILKED BY ELECTRICITY AT THE AGRICULTURAL COLLEGE, AUBURN, ALA.

technic Institute, Auburn, and engineers of the Alabama Power Company who are now engaged in investigation and research work to find ways and means of carrying hydro-electricity to agriculture and into rural dwellings.

Since early in 1924 this work has been in progress. It is being done under a joint agreement between the Alabama



A MODEL FARM BUILDING LAYOUT COMPLETELY ELECTRIFIED.

This was prepared by the Alabama Experiment Station and the Alabama Power Company for exhibition at the Montgomery State Fair, where it attracted much attention.

Polytechnic Institute and the Alabama Power Company. Funds are provided by the Power Company and the experiment station furnishes engineers. It will continue a total of three years at least.

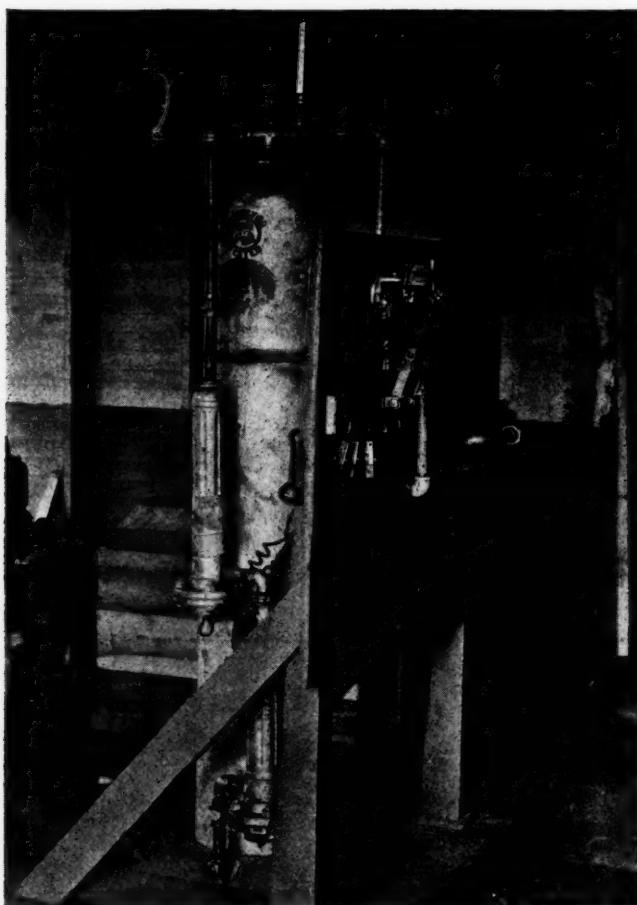
The work in Alabama is in line with that being done in other states. Those in touch with the national situation say

running a total of 78.9 miles had been completed in Madison, Talladega, Dallas, Jefferson, Tuscaloosa, Chambers, Etowah, Marion, Shelby, Montgomery, Elmore, Chilton, Tallapoosa, Fayette and Walker counties.

A total of 1300 customers were enjoying electricity on these 27 lines. They were using it for lighting their homes and

barns, cooking, pumping water, grinding feed, milking cows, ginning cotton, operating farm shops, cleaning seed, heating water, operating grist mills, refrigeration, incubating and brooding chickens, poultry-yard illumination, meat curing, separating cream, dish washing, and for numerous miscellaneous household tasks.

On February 1, 1925, Mr. Easter reported that 12 additional lines for 38.1 miles had been authorized. The estimated



HEATING WATER WITH ELECTRICITY.

number of customers which these new lines will serve is 638. Therefore, 39 lines, totaling 117 miles, and serving, or to serve, 1940 customers, were either completed or authorized.

On this date Mr. Easter compared the figures on an old line with a new line. In 1920, four years before this joint work began, the Alabama Power Company ran a line 5.5 miles from Huntsville into rural Madison county. It was completed June, 1920, and at that time 10 customers took advantage of the service. This was all who had access to it.

At first the average per customer consumption per month was 47 k. w. h. On November 1, 1924, 11 customers (all that were available) were using an average of 114 k. w. h. per month, representing an increase of considerably more than 100 per cent. They were using electricity for lighting, cooking, pumping water and for many small-farm power jobs. A cotton gin was one of the big customers. During the season 1550 bales were ginned by this gin at a power cost of approximately 50 cents a bale. The owner found that the cost of electric power was about the same as steam power, but that electricity is far more convenient.

The total revenue from this line in 1924 was \$1560.29. Over half, \$834.78, was used by the gin and the balance for other purposes. The average revenue per farmer for November was \$6.97.

The rate for lighting was 10 cents per k. w. h. for first 30

and 8 cents per k. w. h. for second 70. The power rate was \$1.50 per k. w. demand per month, and 3 cents per k. w. h. up to 1000 and 2 cents per k. w. h. over 1000 per month. For cooking the rate was 10 cents per k. w. h. for the first 30, 3½ cents for second 150 and 2½ cents per k. w. h. over 180.

In 1924 a line 5.3 miles long was completed at Five Points in Chambers county. It had 68 initial customers who used an average of 10.8 k. w. h. the first month. The second month this increased to 16 k. w. h. per customer.

In comparison with the Huntsville line this is very low, but the Five Points line is new and the increase in the consumption of current thus far is encouraging. It indicates that rural people learn very rapidly how to use electricity when it becomes available.

The Five Points line is providing lights for all of its 68 customers. Three are cooking with it, four are pumping water, and all are using it for miscellaneous purposes.

A grist mill and a gin are being operated, but the current consumed by them is not included in the average.

The gross revenue the third month on this line, not including the gin, was \$161.26. The same month it was \$76.68, not counting the gin, for the Huntsville line, which has only 11 customers to 68 for Five Points. The average monthly bill per customer at Five Points is \$2.37, compared with \$6.97 at Huntsville.

The experiment station at Auburn has been electrified; and while investigational work is in progress on 27 rural lines, with 12 more authorized, research work is in progress on the experiment station. At the poultry plant, for example, a special study is being made of the use of electricity for incubating, brooding and for increasing egg production by turning on electric lights from 8.15 to 9.15 each evening. It was turned on at night the first time late in January. As this is written conclusive results are not available, although John E. Ivey, head of the poultry department, is



PORABLE MOTOR FOR USE WHERE NEEDED.

certain that it is effective. It is being watched with keen interest.

At the dairy barn it is being used for grinding feed, filling silos, milking cows, operating a cream separator and heating water. Here, as elsewhere, each job is metered and accurate records kept as to cost, amount of energy consumed and other details.

A special study is being made of the use of electricity for refrigeration, the object being to work out a practical farm refrigerating system to be used by farmers in curing meat, refrigerating milk, fruits, vegetables and numerous other farm products needing refrigeration.

At the home demonstration practice house at Auburn, where students learn how to do things by actually doing them, research is in progress on dish washing, cooking and several

other household jobs. They want to know not only if it can be done, but if it is practical, what it costs, how it works best, etc.

Results of operating an electric range for 2½ months are very interesting, as follows:

	Meals prepared	Person meals	Total K.W.H.	K.W.H. per meal	K.W.H. per person meal
Breakfast	66	469	181	2.74	.38
Luncheon	65	462	236	3.63	.51
Dinner	64	448	321	5.00	.72
Total	195	1379	738	11.37	1.61
Average				3.79	.54

The demand rate for operating this range is \$3 per month for 30 k. w. h., 3½ cents for second 150 and 2½ cents per k. w. h. above 180.

The average monthly bill was \$11.95, and the cost per meal per person was 1.9 cents. It is believed that this cost item can be materially lowered.

Just what the effects of hydro-electricity on agriculture will be when once it succeeds in reaching the majority of



COOKING WITH ELECTRICITY AT HOME DEMONSTRATION PRACTICE HOUSE, AUBURN.

farms and farm homes is a matter of speculation, but at least a few conclusions can be drawn with reasonable certainty.

For example, one of the big agricultural needs of the South is more dairying. In the production of dairy products the South does not produce as much as it consumes, although there has been almost a phenomenal increase in dairying since the spread of the boll weevil.

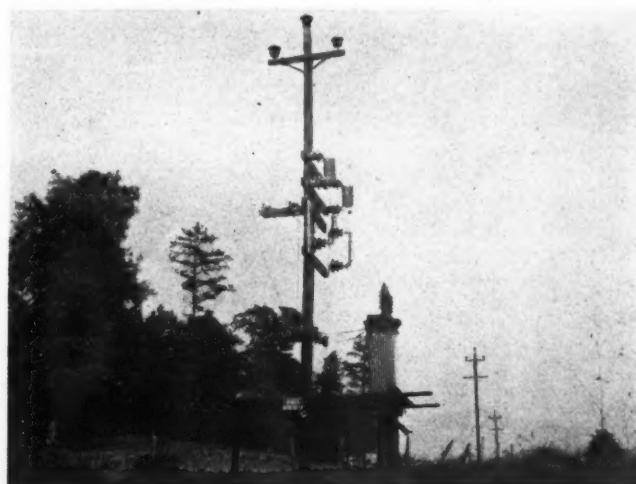
But dairying has its difficulties to overcome. Without lights, or with only a kerosene lamp, it is certainly not so pleasant to work around a barn when it is dark, especially when it is raining. If electricity can be used for lighting, this handicap will be overcome. Again, many people do not enjoy milking cows, but it is not objectionable to "Miss Electricity." Likewise, it removes the drudgery in heating water, separating cream, grinding feed, etc. In brief, it removes the drudgery and makes the work pleasant.

Another need in the South is more poultry, and here electricity is certain to play an important part, as above indicated by the work in progress at the poultry plant on the experiment station. Electric lights alone will add much to the pleasure of feeding and managing poultry. But this is by no means all.

Many other advantages from the standpoint of operating the farm can be seen, but one is of special interest. It is the advantage of having enough power. In this Southern farmers are especially shy; one of their big needs is to utilize

more power efficiently. The per capita income by nations is in proportion to the amount of power consumed, and the same is true of industry and farming. Roughly, the average Iowa farmer has four times as much power as the average Alabama farmer has, and the income of the two are in proportion.

Just how far electricity will be used for power purposes remains to be seen. There is no limit to its use for stationary



HIGH-TENSION TRANSMISSION LINE.
Showing transformer which "steps down" the power so the farmers can use it.

power, but to what extent it will be used for drawbar power, for preparing land, planting seed and harvesting crops is yet to be determined.

Furthermore, much of the drudgery of farm life will be removed. The rural housewife will have all comforts and conveniences of her city friends plus natural rural advantages. If it is properly used, electricity should assist very materially



A WILLING WORKER.
This motor provides power for milking and for pumping water for a dairy herd of 60 cows and grinding feed for two herds of 130 cows. It cost \$140 and the monthly bill for electricity is \$9.32.

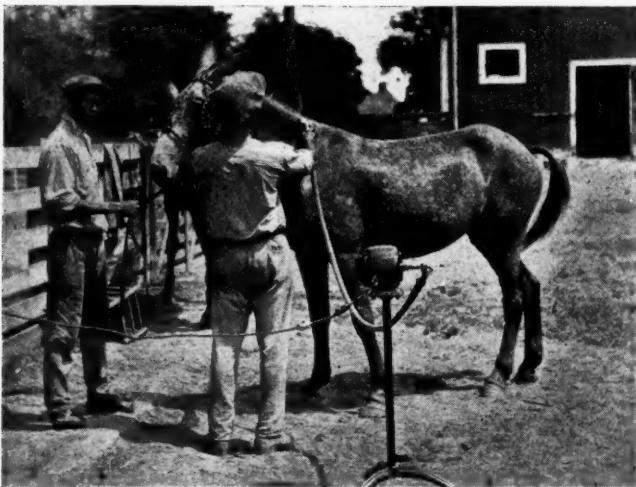
in making each farm an attractive little manufacturing plant, producing agricultural products.

Natural products will be conserved. This will be especially true of natural water-power, since the only way to conserve water-power is to harness and use it. Large quantities of farm products which now go to waste each year will be saved. Less fuel will be needed, which will reduce the timber demands, a problem which is becoming critical.

Rural sanitary conditions should be improved. With elec-

tricity available for pumping water sanitary equipment will be installed. Better health is certain to follow. The hook-worm pest will be eliminated by proper sanitation.

Social conditions will become more attractive. New farm homes are expected to be located on highways near transmission lines. It is probable that they will be grouped into communities, after the old English fashion, so that one trans-



CLIPPING MULES WITH THE AID OF ELECTRIC POWER.

former can serve several farmers. Such grouping will add to the pleasures and social advantages of country life.

Those who have studied the subject thoroughly think that a decentralization of industry will follow the spread of hydro-electric energy to rural centers. This will tend to develop a new type of industrial workers. They will have room for a garden and an orchard, for a cow and for chickens, which should reduce living costs and increase satisfaction. In brief, production costs will be lowered, savings affected, and a new rural life with the advantages of nature plus the achievements of man will follow the successful application of electricity to agriculture.

Savannah News to Build \$250,000 Structure.

Savannah, Ga.—Construction has begun on a \$250,000 building to be erected here by the Savannah Morning News, which is designed to be one of the most modernly equipped newspaper plants in the South. It will be located on Bay street and will connect with the present building on Whitaker street, the latter to be completely remodeled. The structure will be of Italian Renaissance architecture, four stories, and, with the old building, will contain a total of 42,000 square feet of floor space. Base construction will be of solid Stone Mountain granite, basement and frame of reinforced concrete and walls of granite terra cotta with gray granite finish.

Space will be provided in the basement for the pressroom, which will be equipped with a sextuple unit type Hoe press, while a portion will accommodate boilers, heaters and a pneumatic system for copy carriers. The business office will be located on the first floor and the editorial offices on the second. Third-floor space will be devoted to the composing room. The structure has been designed by Olaf Otto of Savannah, who is also the contractor in charge.

May Vote \$2,500,000 for Improvements.

Sebring, Fla.—Officials of this city are considering calling an election on a bond issue of \$2,500,000 to extend White Way boulevards, provide parks and to pave new subdivisions of the city. It is also planned to extend light and water service to new territory.

"Alexandria (Va.) Stirring and Awakening."

Southern Railway System,
Development Service.

Alexandria, Va., April 16.

Editor Manufacturers Record:

Alexandria—historic, venerated Alexandria—is stirring and awakening in a manner and with such energy as to indicate the certainty of a new and greater city industrially. Just to mention a few acquisitions:

Concrete Hollow Tile—The Stresbilt Tile Company, Inc., manufacturer of concrete hollow tile, having outgrown its present plant, will move to a new location at the foot of Cameron street. The capacity of the plant will be more than double. Additional machinery has arrived for installation in the new buildings.

Elevators—The Blake-Palm Elevator Company has purchased the manufacturing plant at the foot of Duke street, which has been idle for some time, and is rapidly getting it in shape for the manufacture of passenger elevators of all types. Machinery is being installed. A feature of the plant will be a commodious foundry, where the elevator castings will be made and which will also be available for commercial castings for the general trade.

Creamery—Negotiations are about complete for the location of a thoroughly up-to-date creamery and butter-making plant; particulars will be announced later. Coupled with the locating of this industry will be a campaign among farmers of the vicinity to induce dairying after approved scientific methods, which will insure a greater supply of milk at a reduction in the cost of producing.

Tank Tractors—The Sales Corporation, which some time ago purchased the extensive warehouse and manufacturing property at the foot of Duke street in which to house the large number of war tanks which it purchased from the Government, is rapidly converting these tanks into farm tractors, which meet with ready sale and which they are shipping out daily. Ultimately the property will be devoted to the manufacture of a certain staple article for which a ready market is already assured. Particulars will be given out later.

As the erection of the great Washington Memorial Temple progressed, with its constantly increasing crowds of visitors, the need of a hotel, worthy of the name, and worthy of this class of patrons, became more and more pressing. The Chamber of Commerce took the lead in a local campaign which resulted in the financing, with local capital, of a home corporation, which has had prepared plans and specifications for a hotel, modern in every respect, which will be five stories high and will contain 106 bedrooms. The hotel will cost \$500,000. There will be a spacious lobby and four storerooms on the ground floor. In addition, the building will contain large and small dining rooms, assembly halls, etc. It will occupy a corner on two of the main streets, and will be of colonial design, constructed of red brick, with limestone trimmings. The buildings which formerly occupied the site have been removed, and the foundations are now being laid.

The citizens by popular vote selected "The George Mason" as the name for their new hotel. George Mason served as a member of the board of trustees of Alexandria from 1754 to the incorporation of the town in 1779.

Facts and figures could be presented to show that the commanding location and resources of Alexandria are attracting the attention of manufacturers. Several new industries have been located recently, and negotiations are going forward in connection with others.

Construction of the new hotel will be pushed. A contract for its operation, when completed, has been closed with one of the largest and most successful hotel-operating corporations in the country.

W. B. McGROARTY, Industrial Agent.

Rebuilding the Sugar Industry of Louisiana.

By THOMAS EWING DABNEY, New Orleans.

Louisiana's \$200,000,000 sugar industry, the Sick Man of the South, almost passed away with the crop disasters of 1923 and 1924. The value of the cane crop to producers was about \$17,000,000, less than the cost of production; and the sugar mills—there are 110 of them, representing an investment of \$200,000 to \$1,000,000 each—operated at a loss. Many have been closed for years. Tens of thousands of acres of cane land have been thrown out of cultivation, and the population of the sugar parishes has dropped 50,000 during the past decade.

The trouble has been diminishing production of cane tonnage. The average cane production of the state last year was 7.9 tons per acre. It takes 14 tons an acre to pay to make the crop. It takes five tons to plant an acre. From yields of 20 and 25 tons an acre, the production has fallen almost to the vanishing point in less than a quarter of a century.

The reason is disease, run-down seed and lack of cultural attention generally. For whereas the sugar planter was formerly a farmer and thought first in terms of raising cane, he has become, in modern years, a manufacturer, giving so much attention to his elaborate and costly sugar house that he did not have time to devote to the agricultural end. That is why he allowed disease to creep in, despite the warnings of the United States Department of Agriculture as early as 1919, which reported the localities in which mosaic had been found, and told what the scourge had done in other sugar countries and how it could be combated.

This is a sufficiently dark picture, but it accentuates the vividness of the hope that has been raised in the hearts of the planters as a result of the development of disease-resistant varieties of cane, producing a heavy yield and with a large sugar content that have been developed by the Department of Agriculture, and demonstrated on Southdown plantation, in the Bayou Terrebonne section, near Houma, La.

These new canes, it is confidently expected, will turn sugar losses into profits in three or four years—as soon as the belt can be reseeded—will reclaim the sugar acres that have been allowed to grow up in jungle and will extend plantings further. It is not impossible that within a decade the sugar crop of Louisiana will be worth \$50,000,000, and that instead of 400,000 persons, at least 600,000 will, directly or indirectly, draw their living or a large part of it from sugar making.

The cane varieties in question are the P.O.J. 234 and one that is similar to Cayana 10, though it has not been positively identified as such. This was the variety, by the way, that saved the Georgia syrup industry when disease swept over those fields.

From a 20-foot row of each, planted in 1921, Southdown plantation has developed plantings of 100 acres in P.O.J., and 175 acres in Cayana. This gives some idea of the increase and multiplication of the species.

These two canes yielded in 1923, the wettest year on record, and in 1924, the driest year on record, 30 tons and better an acre. In 1922 they yielded at the rate of 60 to 70 tons; that was a normal year. The 30-ton yield compares with a 10½-ton yield last year on the same plantation, Southdown, the plantings being done in adjoining acres, with the same cultural methods. Furthermore, the new canes require only one ton of seed to plant an acre, instead of five, which means a saving of \$20 an acre on the production costs.

The American Sugar Cane League has studied the performance of these canes, and is so convinced they mean the salvation of the Louisiana industry that it has made arrangements with Southdown plantation to distribute seed to plant-

ers of this state. This seed will be allotted in accordance with the demand, the idea being to get it as widely distributed as possible. Between 5000 and 6000 acres will be so distributed, and it is estimated that from this stock the Louisiana planters will be able to raise sufficient seed to replant the entire sugar belt in three or four years. Within two years the industry should be able to check the awful losses, perhaps show a little profit.

It is a significant fact that the membership of the league has jumped during the past few months from 600 to 6000.

The Department of Agriculture, through Dr. E. W. Brandes of the sugar department, is now trying to develop even finer canes—varieties that will be disease-proof and that will yield a still heavier tonnage. Indications are he will succeed. Dr. Brandes, cautious scientist, will make no definite announcement yet, but he does admit that he considers the probabilities very bright. The present canes, he says, are merely a stop-gap, a temporary expedient to tide over the industry during the next few years.

Another important development in the rehabilitation of the sugar industry is the system of making loans that has been worked out by the Federal Intermediate Bank. This organization gives credit on better terms than commercial banks could afford, and furthermore it exercises a control over the operation of the plantations that private banks could not exercise. It requires the planters to budget their needs carefully and to follow certain planting practice. The bank has inspectors traveling through the cane belt continually.

The first group of planters to avail themselves of the Intermediate bank plan were in the Houma section. Now three more organizations are forming—at Franklin, New Iberia and Lafayette. The year's sugar-crop loans by the Intermediate will total several million dollars. The commercial banks are glad to have this business taken off their hands.

Brought together by the common disaster, and through the efforts of such organizations, the planters are learning a co-operation heretofore foreign to the industry. The Houma group, for instance, bought fertilizer co-operatively and saved \$7 a ton. Now the planters are talking of the time when they will employ specially trained experts to handle the different phases of operation—planting, manufacturing, marketing. They could not afford to do this individually, but they think they will be able to work out a co-operative plan whereby they will be able to have such experts superintend groups of plantations.

Already one group of planters has employed a combustion expert, and he has shown that he can reduce their fuel bills by 50 per cent.

During the past 50 years the sugar industry of Louisiana changed for the worst. Now it is changing for the better. Thirty to forty tons of cane, instead of sixteen to twenty; a net of \$35 per plantation acre, instead of a loss; a sugar production of \$50,000,000, instead of \$17,000,000—that's the future.

Thirty-five dollars per acre is enough to support a land valuation of \$150. The yield is quite possible. Note this:

One-third of the acreage of a sugar plantation is in plant cane (that is, cane raised from seed planted that season); one-third in stubble (that is, cane that comes the second year from roots after the first growth has been cut), and one-third in corn and rest crops.

With a yield of 30 tons an acre for plant cane, it is safe to assume a yield of 20 tons for stubble. The production then averages almost 17 tons per plantation acre.

Fourteen tons of each acre planted in cane go to pay the

expenses of cultivating and carrying that acre, including overhead. That is, the cost of operating the plantation averages less than 10 tons for each acre of the entire holding.

That leaves a profit of 7 tons, which at a conservative field price of \$5 is \$35 an acre net—not for each acre in cane but for each acre of the entire plantation.

From the huge industries, like the Penick and Ford syrup-making plant, and the Celotex Company of New Orleans, which buy their raw material from the sugar plantations, down to the country stores and country banks; from the railroads that are not handling half the cane business they were in the nineties, down to the hoe hands in the fields; from the planters, the aristocrats of the agricultural industry, down to the humblest water boy—an entire section of the state, embracing 400,000 persons at the present time and reaching into practically every business enterprise, will feel the impulse when the sugar belt is once more economically sound and is rolling out the production of which it is capable.

Six Birmingham Schools to Cost \$768,000.

Birmingham, Ala.—Contracts aggregating more than \$768,000 have been awarded to local contractors, with one exception, for the erection of six school buildings here, construction to begin at once. The proposed buildings include Ensley high school, for which W. L. Coston was awarded general contract; Central Park and Fairview schools, Miller Bros., general contractors; Elyton school, Holley & Davis, general contractors; Gibson school, C. W. Hall, general contractor, and Council school, E. R. Maynard, general contractor.

The Birmingham Purchasing Co. was awarded contract for plumbing in the Ensley high and Gibson schools; Alabama Supply Co. in Central Park and Elyton schools; Birmingham Equipment Co. in Fairview school and J. M. Wright & Co. in Council school. Heating contract for all buildings was awarded to the Poe Piping & Heating Co., Greenville, S. C., and for electrical work to the Alabama Supply Co. D. O. Whilddin is architect for Ensley, Central Park, Fairview and Elyton schools; Denham-Van Keuren & Denham for the Gibson school, and Bem Price for Council school, all of Birmingham. William B. Ittner of St. Louis is consulting architect.

May Erect \$2,000,000 Building in Baltimore.

New York capitalists said to be represented by Thomas Soriero of New York and George W. Funk of the Funk & Wilcox Co., architects of Boston, Mass., are negotiating for the purchase of property at 311 North Howard street, Baltimore, as a site for a new theater and office building to cost approximately \$2,000,000. Discussing the project, the Funk & Wilcox Co. wires the MANUFACTURERS RECORD: "Proposed Howard-street building 85 feet front, 230 feet deep; theater to seat 3500; office building 10 stories high; entire proposition for New York people."

Features of the proposed building are said to include a swimming pool in the basement, a nursery and roof garden.

Exposition Building to Cost \$600,000.

Donna, Texas.—Plans are expected to be ready within 60 days for the proposed \$300,000 exposition building to be erected here by the Inter-Continental Fair Association, Inc. The structure, it is said, will be built in the shape of a star, with the administration section in the center and five projecting wings for exposition purposes. It will be two stories, of fire-proof construction, with concrete foundations and floors and tile roof. George Louis Walling of Austin is the architect, and C. W. Moore and Roland B. Moore, contractors, of Austin and Donna.

Hunting for American Potash.

Permits and leases to mine potash on the public domain total 483, covering 1,092,873 acres, up to March 23, 1925, according to a tabulation just completed at the Interior Department.

The terms of these permits and leases provide for an initial investment of approximately \$2,926,000 and the payment of a royalty to the Government on all potash produced.

Of the various states the largest number of permits and leases have been issued on the public lands in Utah, the total being 302. California comes second with 83 and Nevada third with 72. A list of the states with the number of potash permits and leases follows: Arizona, 4; California, 83; Colorado, 3; Idaho, 1; Montana, 2; Nebraska, 4; Nevada, 72; New Mexico, 10; Oregon, 1; Utah, 302, and Wyoming, 1.

The tabulation also shows that 40 permits for the mining of sodium have been issued by the Interior Department on approximately 60,000 acres of public land as follows: California, 5; Nevada, 27; New Mexico, 3, and North Dakota, 4.

An oil-shale lease involving 1920 acres of public land in Idaho and requiring an initial capital investment of \$100,000, and a phosphate lease covering 360 acres in Wyoming, requiring a capital investment of \$35,000, complete the list, in addition to the payment of royalties to the Government.

Contracts for \$2,000,000 Office Building.

Houston, Texas.—Several contracts have been awarded on the proposed 25-story office building to be erected here by the Niels Esperson estate at a cost of more than \$2,000,000. Among these are the following: Excavation, foundation and lower supporting walls, Townsend & Walling; 1200 concrete piles, 24 feet long, Raymond Concrete Pile Co., New York, and fabricated steel to the American Bridge Co., also of New York.

The structure will be of Italian Renaissance architecture, 150 by 151 feet, with a base of Texas granite, Bedford limestone tower and polychrome terra cotta frieze. There will also be a sub-story and open-court garage, with accessory and filling station. Space will be provided on the top floor for a ladies' rest room and men's gymnasium. John Eberson of Chicago is the architect.

An Exhibit of Citrus By-Products.

An exhibit of by-products from citrus fruits, recently displayed in the lobby of the Atlantic National Bank of Jacksonville, Fla., brought forth much favorable comment. It was arranged by the bank as a matter of interest to its customers, with the idea also that it would be of value to citrus growers, few people seeming to be aware of the many products which can be made from waste citrus fruit.

Articles in the display were supplied by a number of manufacturers and dealers and embrace candied grapefruit in different sized cans, grapefruit juice in bottles, grape juice marmalade and crystallized grapefruit peel, toilet accessories, including face powders, perfumes and toilet waters.

Plans 15,000-Horsepower Development.

Application has been made to the Federal Power Commission, Washington, by John A. Shafer, Indianapolis, Ind., for a preliminary permit for a hydro-electric development on Current River in Ripley and Carter counties, Missouri. The proposed development will involve the construction of two dams 50 feet high—one about one and one-half miles above Doniphan and the other about four miles below Chilton, with a power house near each dam. The installation will have a total primary capacity of 15,000 horsepower.

Plans Completed for \$5,500,000 Theater and Office Building at St. Louis.

St. Louis, Mo.—Plans have been completed for the proposed Ambassador Theater and office building to be erected at 7th and Locust streets in this city for Skouras Brothers at a cost of \$5,500,000. The building will be 17 stories, with tower extending seven additional stories, of fireproof construction, structural steel framework resting on concrete caissons extending 70 feet below street level to bedrock. It will front 164 feet on 7th street, with a depth of 131 feet on Locust street, both street facades to be faced to the height of the first floor with polished granite and above that point with terra cotta in pulsichrome finish to imitate natural stone.

Provision has been made on the first floor for nine shops facing the streets, while the upper floors will contain approximately 500 offices. The auditorium will seat 3500. C. W. & George L. Rapp of Chicago are the architects.

Buys 16,000 Acres—Plans \$6,000,000 Hotel.

The Mizner Development Corporation, organized by Addison Mizner of Palm Beach, Fla., and associates, advises the MANUFACTURERS RECORD that it has purchased 16,000 acres of land at Boca Ratone with two miles of ocean front, and that it plans to erect a \$6,600,000 hotel of fireproof construction with stucco exterior. Plans for the hotel will be drawn by Mr. Mizner. Two 18-hole golf courses, polo field, casino and other facilities are also planned.

Development work on the property is expected to begin at once, a small acreage adjacent to the hotel property to be divided into lots by May 1.

Houston Votes \$4,975,000 of Bonds.

Houston, Texas.—Municipal improvement bonds to an aggregate of \$4,975,000 have been voted by this city, each issue being carried by a substantial majority. The various amounts and purposes for which the bonds will be used are: Bridge, \$1,100,000; roadways, \$500,000; street paving, \$750,000; macadam paving, \$300,000; three incinerators, \$75,000; sanitary sewers, \$250,000; storm sewers, \$350,000; improvements to water-works, \$750,000; subways, \$250,000; farmers' market, \$350,000, and park improvements, \$300,000.

\$750,000 Hotel Announced for Savannah.

According to recent announcement, M. Wilensky and J. Maril of Savannah, Ga., with associates, plan to erect a \$750,000 hotel in East Broughton street, Savannah, for which plans are being prepared by Henrik Wallin of that city. In connection with the enterprise, Arthur E. Comer of the architectural firm wires the MANUFACTURERS RECORD that sketches for the building have not been finished. It is understood that a 10-story structure is being considered.

To Vote on \$2,500,000 for Irrigation.

San Antonio, Texas.—An election will be held on April 29 in Bexar, Medina and Atascosa counties on a bond issue of \$2,500,000 for the acquisition and development of an irrigation project in these counties. It is planned to acquire the present system with the Medina dam and diversion dam properties, of which Hugh R. Robertson of this city is receiver, and to make additional extensions and improvements. Approximately 43,000 acres will be irrigated.

The city of Dallas, Texas, has voted a bond issue of \$3,000,000 for schools, streets, parks, sewers, garbage-disposal plant and other improvements.

The Pine Institute of America Advances.

Indications of substantial progress by the Pine Institute of America in its steps to establishment on a firm foundation are given in an announcement by O. H. L. Wernicke, general chairman, which says, among other things, that "the Institute project has received hearty endorsements and definite promises of co-operation from the United States Forest Service and Departments of Commerce and Agriculture, and also from the American Forestry Association, the American Tree Association and similar organizations."

The Founders Committee as now constituted consists of: J. T. Skelley, Hercules Powder Co., Wilmington, Del.; J. C. Nash, Columbia Naval Stores Co., Savannah, Ga.; John H. Pace, Baldwin-Lewis Pace Co., Jacksonville; O. A. Cosner, Central Commercial Co., Chicago; H. H. Wefel, Jr., H. H. Wefel, Jr., & Co., Mobile; R. M. Newton, Newton Naval Stores Co., Brooklyn, Miss. Waldo E. Cummer of the Florida Wood Products Company and the Cummer Lumber Company, Jacksonville, was asked to serve on the committee, and the chairman hopes he can arrange to do so.

Remittances for preliminary expenses, which are to apply as credits on membership contracts, have been received as follows: Carson Naval Stores Company, Savannah, \$300; Columbia Naval Stores Co., Savannah, \$300; the Downing Company, Brunswick, Ga., \$300; Taylor, Lowenstein & Co., Mobile, \$300; Gillican & Chipley Co., New Orleans, \$300; Central Commercial Co., Chicago, \$300; Pensacola Tar & Turpentine Co., Gull Point, Fla., \$300; Newton Naval Stores Co., Brooklyn, Miss., \$100. Assurances have been received from others aggregating a comparable sum, and it is felt that about four-fifths of the pre-incorporation requirements are in sight. The statement by the chairman continues, in part:

"Your chairman has given his time almost exclusively to the work since the February meeting in Savannah, in travel and general preparations; he has traveled about 5000 miles by rail and auto and has handled a large volume of correspondence necessitating some clerical assistance, and now has in process of preparation a more complete and comprehensive pamphlet of the project for wider distribution and as an aid to the work of securing membership contracts when the Institute has been organized. This pamphlet, of course, will be submitted for approval to the committee before publication or more than incidental expenditure thereon.

"The members of the Founders Committee are so widely scattered that frequent meetings would be difficult to arrange and needlessly expensive; in the circumstances your chairman will submit to each of them his own views as to any desired changes in the plan and solicit their suggestions and advice. By this method it is hoped to get everything in order for final ratification and legal incorporation at one meeting of the committee, which can be held at some convenient place, like Cincinnati.

"The Founders Committee has authority to expand its membership by majority vote, and this might be exercised by designating a number of desirable persons from each class, with reference also to geographical considerations, from whom the Founders Committee can be expanded to the number of 21, and thus constitute the first board of trustees after incorporating. As there are to be three such trustees for each class, one to serve one year, one two years and one three years, it seems expedient to decide their terms by lot.

"It has now become important that all members of the Founders Committee and other friends of the project should contribute a sum approximating 20 per cent of the first yearly payment under their membership contract toward organization expenses, said sums to be credited against future dues.

"Indications are favorable that the leading daily papers of the Southern pine belt and other influential publications elsewhere will earnestly co-operate to gain support for the project. Some bankers in the district have manifested a desire to be helpful. Because the purposes of the Institute directly make for increased resources and more profit for the business of banking, it is natural, therefore, to expect a substantial membership from that class."

Further announcements relating to the project and its progress will be made from time to time, says the chairman.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

Memphis Wants the Annual Meeting of the National Association of Manufacturers.

W. H. HAYLEY, Manager, Chamber of Commerce, Memphis.

As per suggestion in a recent issue of the MANUFACTURERS RECORD to the effect that the National Association of Manufacturers should hold its next meeting at some point in the central South, we are writing to the secretary of the Association today and will use our best efforts to secure for Memphis the next meeting.

We greatly appreciate your suggestion and hope to have your co-operation in this matter.

As you know, with our large new auditorium, seating 13,000, and several large new hotels, we are now in position to entertain conventions of all sizes. The Chamber of Commerce Convention Division and the City Auditorium Commission are working together to make Memphis the great central convention city.

Because of our location we secure without much difficulty 100 conventions yearly. We have determined to double this number. So far the conventions held and those booked for future dates amount to 80, and the prospects are that within a few years Memphis will be regarded as one of the best equipped cities in the country for taking care of conventions.

Suggestion on Good Roads Essays.

REV. R. E. BRICKHOUSE, Darlington Heights, Va.

During these passing days thousands of high school pupils are preparing essays for the National Good Roads essay contest. H. S. Firestone, in originating this plan, has done a thing that should be appreciated by every American citizen. No one can forecast the good and great results of this venture. It has already put a new and strong impetus into our high schools for a high type of original work. It is encouraging the idea of personal observation in literary production. It is fostering the idea of the absolute necessity of better highways all over our country. Moreover, this contest is having, and will continue to have, a delightful and wholesome effect on both home and community life. I have recently used some of my time in interesting the students of three schools in this contest, and feel that I did a good piece of work.

But I am writing to offer a suggestion which, if carried out, has the possibility of making the appeal to enter this contest many times stronger. Thousands of students hesitate about entering this contest, feeling that they have little chance to win with the scope of the plan so broad. Therefore, it would be a fine thing for some man in each state who wants to use a small amount of his money in a broad educational way to make possible a scholarship, covering the expenses of the freshman year in college or university to the winner in his state; and, furthermore, there ought to be provided in every county for the local winner a scholarship amounting to at least the tuition of the freshman year in college. If this plan could be so extended and localized by men of money and vision, the number of contestants would be increased tremendously. If this plan could be thus executed, the second best essay might take the state award in the state furnishing the national winner, and the same rule might apply in the counties furnishing the state winners. Thus there would be also a worth-while award for every state and county winner, respectively.

Utilizing Grapefruit and Oranges for Trademarked Juice Product.

ROBERT L. COLTER, Wauchula, Fla.

In a recent issue of the MANUFACTURERS RECORD we noticed your article on the future industrial development of Florida and, in view of the fact that we have what we believe to be one of the greatest discoveries pertaining to the economic side of the citrus industry, are taking the liberty of writing you in detail concerning it. Regarding the Florida industrial contest being put on by the Hollywood people, we are writing them in detail concerning this same subject.

As every well-informed person knows, the citrus industry in Florida is in a bad way at present owing to the great waste in the industry on account of unmarketable fruit, viz., culls and drops; also, the development of the markets in the United States for citrus fruits is at present far behind the actual fruit production and, therefore, new by-products and uses must be found for the oversupply of fruit.

We have discovered a secret of preserving grapefruit and orange juice whereby it can be distributed in 5-cent bottles throughout the world, marketed and sold under the same principles as Coca-Cola; the fruit we use is the unmarketable culls and drops, for which we pay the grower 25 cents per box. This will almost pay for the fertilizing of the groves.

Our product is beyond the experimental stage and the grapefruit drink we manufacture is now on the market under the trade-marked name "Grapefruit Crush." If we get the financial support we should get we will be able to put up about a dozen by-product concentrating plants over the state and take care of the majority of the fruit which is now being wasted. We shall be glad to answer any questions regarding this matter.

Zinc Mining Again Becomes Active.

Zinc, Ark., April 20—[Special.]—For the first time since the war, zinc mining operations in this section are active again. The low price that came with the close of the war ruined the industry here at that time, but better prices during the first quarter of this year have put new life into the field. About 90 per cent of the ore mined in this vicinity is silicate of zinc, with a metallic content running around 40 per cent. It makes the best slab zinc that can be made from virgin ore and is also valuable in the manufacture of chemicals.

Practically all the mining is carried on by the tunnel and drift method. An outcrop is discovered on the mountain side and is followed in with a tunnel. One of the best strikes ever made in the camp was recently made by Lawhon, Peterson and Morris. They encountered a very rich body of black silicate in an open drift, almost at grass roots. Some boulders have been taken out that weigh as much as 1000 pounds. Nearly all the ore mined in the camp is free ore, being ready for shipment as it comes from the ground, which eliminates expensive milling operations and opens the industry to men of small means.

Most of the operations are on leased land, the operators paying the landowners a royalty of from 10 to 20 per cent. Some small lots of lead are being marketed here from the Dodd City and Short Mountain sections. Considerable new prospect work is in progress, prospectors hunting for both silicate and lead deposits.

THE IRON AND STEEL SITUATION

Big Year Indicated for Fabricated Steel.

Pittsburgh, April 20—[Special.]—Fabricated steel contracts reported last week as let amounted to 54,000 tons, making by a slight margin the biggest week thus far this year. The average in the past five weeks was 34,000 tons weekly, or 5 per cent increase over the average in the preceding 10 weeks of the year. The fabricating shops entered this year with very good order books and it is certain that this year will be a big year in building construction involving fabricated steel, while it is at least as likely as not that it will make a new record for a year.

Buying of oil country tubular goods has been increasing pretty steadily since the first of the year, though not altogether as rapidly as was expected. This will not be as good a year for oil drilling as was expected, but it will easily pass 1924.

Production of automobiles continues to increase. At this time last year the industry was overstocked and had begun to curtail production.

Agricultural implement factories are working at higher rates than at any time since 1920.

In no direction is there any decrease in steel consumption, while in many instances there are increases, traceable chiefly to the season of year.

Inasmuch as there was steel production in excess of consumption during the first three months of the year, steel mill operations are necessarily decreasing at the present time. The decrease comes later and is less sharp than many were expecting a couple of months ago. Mill operations now average close to 85 per cent of capacity, against a high point of about 93 per cent in the fore part of March, an average of 90 per cent in the first quarter of this year and an average of 74 per cent in the two years 1923 and 1924.

Excess production in the first three months would indicate stocks of steel in existence at the present time. All buyers are anxious to liquidate stocks if they have any, yet buying is fairly large, orders reaching steel mills at a rate of 50 to 60 per cent of capacity. This indicates that stocks are not large and are so placed that they cannot be liquidated quickly.

Finished steel prices can hardly be said to be actually declining. They are not advancing and they are not absolutely stationary, but there is merely a little slipping from week to week here and there. Sheets have grown a trifle easier, after having declined almost to the lowest point of last year, and wire products are a trifle easier. On the other hand, tin-plate and pipe are at prices they have held for two years, while the rail price is two and a half years old. On an average, finished steel prices are somewhat nearer the high point of early 1923 than the low point of early 1922, but profits per ton are not in keeping, as labor costs are considerably higher than three years ago.

The steel producers cannot be said to take anything like a sanguine view of the future, but from the outside viewpoint it would seem to be merely a case of their having expected too much so that they are suffering now chiefly from disappointment. Price advances attempted early in the year have failed, production has declined and will undoubtedly decline more, but by the long-range comparison the year 1925 as a whole seems certain to be one of large production and consumption.

Connellsville coke production has decreased, but not altogether enough to hold the market, prices being a shade easier than a week ago. There are no negotiations for forward deliveries, consumers apparently being well covered by contracts. Labor is plentiful in the Connellsville region, and

there is no expectation that West Virginia labor troubles will spread into the region.

Pig iron has continued dull, and Bessemer and basic are off 50 cents in the week, the market being now at \$21 for Bessemer, \$20 for basic and \$20.50 for foundry, f. o. b. valley furnaces, with \$1.76 freight to Pittsburgh.

Heavy melting steel scrap remains at \$16.50 to \$17 after its decline of \$1 a week ago. Mills are not buying to any extent.

Hand-to-Mouth Buying Policy Still Prevails in Birmingham District.

Birmingham, Ala., April 20—[Special.]—A change in the pig-iron market conditions in Alabama is imminent. The furnace interests believe there will be buying, while the consumers are hopeful that there will be decline in the quotations. The make of iron will show shrinkage during the coming month if there is no change in the policy of buying from hand to mouth. A little setback in the activity was felt in the past week when one of the city furnaces of the Sloss-Sheffield Steel & Iron Co. had to be banked because of need of minor repairs. Another furnace of the district has been switched from foundry to basic iron.

Accumulated iron has not reached the proportions noted six months ago, but there is more iron piled up than seen since last November. Furnace interests hold to the \$22 per ton base for No. 2 foundry. The one smaller furnace which took a flier with a few thousand tons of iron at a reduction of \$1 to \$1.50 per ton did not arouse any interest among the consumers, who continue buying in small lots and in some instances are holding off entirely and using what iron is due them on former contracts. The survey for the week indicates there will be much iron used in the future, several of the steady melters having contracts already for their various products, which will mean active operation of plants for some time to come.

The wonderful production of all classes of pig iron in Alabama in March, the second best month's output being attained, 253,820 tons being produced, with May, 1917, showing 259,126 tons, was expected to set a pace, and for a few days it was believed possible that with one day less a good showing would be made this month. Occurrences disturb the situation. The persistency shown by consumers of pig iron not to buy for future use has been felt in the iron market. Still, the conditions have been good, production held up, and the Birmingham district was given credit for being in a better condition, generally speaking, than other sections similarly situated.

The Tennessee Coal, Iron & Railroad Co. will put its open-hearth furnace plant at Fairfield in operation in units; just as the furnaces are ready they will go to making steel. Within a week or two the new plant will be in steady operation, it is believed. Work on other new industries is being pushed, so that optimism is being maintained throughout this district. The new steel fabricating plant of Reeves Bros., Inc., manufacturers of tanks and tank cars, will be finished within 60 to 90 days. The Ingalls Iron Works, a steel-fabricating concern, plans immediate erection of an ice-tank manufacturing plant. The Tennessee Company is also adding to its rolling mills at Bessemer so as to increase the production of smaller shapes of steel.

The coal-mining industry of Alabama is holding up fairly well, everything considered. Production is down to 359,000 to 365,000 tons a week, having reached 389,000 tons a week this year. Railroads are considering contracts for the next 12 months, and the interesting part is that minimum needs are equal to what they were last year, with prospects of

maximum being exceeded. Transportation companies in this section report business good and prospects bright.

The coke market here is very good and production is being maintained, the iron and steel companies requiring every ton of the product they can produce and the independent companies still having market for all of their coke. By-product coke ovens still are operating to capacity in this district, with all by-products finding ready sale.

The scrap-iron and steel market is showing weakness, and all products, with one or two exceptions, are to be had at a lower price. Dealers are maintaining their usual yard forces and are working on stock for future demand. Entry into the local market of a large consumer has not aroused any great interest, the consumer having a price at which to buy, and this holds down the market. Heavy melting steel is now at \$13, and in some instances delivery is included.

The Portland cement industry is very active and efforts are being stressed to ship out the product to meet the extraordinary demand. Phoenix Portland Cement Company is pushing the work on its additional kiln in order to meet the active demand for the product. The cement producers are working against an unfilled tonnage.

A labor scarcity is reported in the district.

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$20.00 to \$22.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$20.50 to \$22.50; iron of 2.75 to 3.25 per cent silicon, \$21.00 to \$23.00; iron of 3.25 to 3.75 per cent silicon, \$21.50 to \$23.50; iron of 3.75 to 4.25 per cent silicon, \$22.00 to \$24.00; charcoal iron, f. o. b. furnaces, \$30.00.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	18.00 to 19.00
Old steel rails	13.00 to 14.00
Heavy melting steel	13.00 to 14.00
No. 1 cast	16.50 to 17.00
Stove plate	13.00 to 17.00
No. 1 railroad wrought	12.00 to 13.00
Old car wheels	15.00 to 16.00
Old tramear wheels	16.50 to 17.00
Machine shop turnings	7.00 to 8.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.)	14.50 to 15.50

Busy in Manganese Ore Field.

Batesville, Ark., April 20—[Special.]—The production of manganese ore in the Batesville-Cushman field has held up well during the first quarter and operators predict a larger output this year than last, with the production about equally divided between low and high grade. The demand for the ore is good and shipments are being made from Cushman and Pfeiffer. The bulk of production is going to the Birmingham furnaces. Favorable contracts for ore running around the 30 per cent mark are bringing out a big tonnage of this grade. During the month of March, Shell and Beatty, who are operating in the Roach Hill property, shipped 28 cars. Improved road conditions are helping the industry greatly.

While the bulk of the shipments has been boulder ore, ready as it comes from the ground, some concentrates have swelled the production, and this class of ore will show an increase with the completion of several washing plants that will go into operation soon. The trend in the field now in plant development is for smaller units, rather than large ones—plants that can be moved from place to place when occasion demands.

Shell and Beatty are completing a small washing plant at the Roach Hill, which will have a capacity of handling 75 tons of crude ore a shift. They expect to increase their output from 20 to 30 tons a day with this plant. Hogg and Hanford are making a good daily turn in. The mine of the H. B. Snider interests of Gary, Ind., is equipped with a 500-ton plant. They are washing about one-fifth plant capacity at this time. The Scott Mining Company has just completed a 100-ton washing plant on the Adler land, and is also interested in the Blowing Cave mine, with W. G. Rinehart. A 150-ton washing plant is nearing completion there.

RAILROADS

ATCHISON, TOPEKA & SANTA FE REPORT. Enterprising Construction and Development on the Plains of Texas.

In the annual report of the Atchison, Topeka & Santa Fe Railway Co. for the year 1924 President W. B. Storey makes a very interesting statement concerning the need for railroad transportation in the plains region of Texas, which is now commanding not only the attention of his company but of one or two other systems, as previously reported in the MANUFACTURERS RECORD. President Storey says to the stockholders:

"Considerable territory adjacent to your company's lines in the western part of Texas has been held heretofore in large bodies for cattle-ranch purposes. This has done much to prevent settlement and development, but a marked change has taken place lately and these large ranches are now being rapidly broken up and sold, mostly in 160-acre tracts. Many small towns are building up and railroad earnings from this territory are showing increases. This development is especially marked along the main line from Texico to Lubbock and along the main line and branches from Canyon City south to Slaton, including the Lamesa branch. This region had excellent grain and cotton crops in 1924, and thus far has been free from the boll weevil, with a reasonable prospect that it will continue so because of the high altitudes, sharp cold spells in winter and dry climate. Cotton does well here and is the chief single factor in all this activity. Lying directly west of Lubbock is a territory comprising about 1,000,000 acres, nearly all good agricultural land. To open this for settlement it is proposed to build during 1925 a line 65 miles long to a point near the western border of the state, and with the great number of settlers now going into this region this line should prove a good feeder to the Atchison system."

Referring to the construction done last year, President Storey says that notwithstanding the fact that during the first half of last year net earnings were small, being less than interest and dividends, "it was deemed wise to carry out the program of additions and betterments and of maintenance which had been adopted at the beginning of the year, because the work was well organized, conditions were favorable, and the very lightness of traffic meant a minimum of interference between its movement and the prosecution of such work. As a result the railroad was in condition to handle the heavy traffic of the fall months economically and at the same time most satisfactorily to its patrons, and net revenue from railway operations of the last six months would have more than offset earlier losses if passenger traffic had not been substantially lighter than the preceding year. In common with other railroads it is found that automobiles and bus lines are taking quite a large amount of the company's passenger traffic."

The income and profit and loss statement shows that the operating revenues for the year were \$235,410,951; operating expenses, \$170,314,807; net operating revenue, \$65,096,143; net railway operating income, \$47,283,278; gross income, \$53,937,149; net corporate income, \$42,151,806; which latter was about \$64,000 more than in 1923. Surplus carried to profit and loss was \$21,372,359, making the total to the credit of that account \$187,419,332.

While operating revenues, operating expenses and net operating revenue show comparatively moderate decreases as compared with 1923, the net railway operating income showed an increase, because taxes, uncollectible railway revenues and rentals all showed decreases—taxes, for instance, being more than \$2,500,000 less than in 1923, which much more than offset the falling off of \$850,000 in other income.

W. T. Eldridge Buys Railroad and Will Extend It.

Brownsville, Texas, April 17—[Special.]—Following the recent conversion of the Rio Grande Railroad from narrow to standard gauge, W. T. Eldridge, owner of the property, has taken over the railroad now under construction between Sam Fordyce and Rio Grande City, 22 miles, having purchased the interests of J. B. Carrington and associates of San Antonio, Texas. It is planned to connect the Rio Grande Railroad, which runs from Point Isabel to Brownsville, 22 miles, with the new line, and this will require building approximately 75 miles of line through the lower valley of the Rio Grande. Mr. Eldridge also said that the road would be extended up the valley through Rio Grande City to Roma and thence north to a connection with the San Antonio, Uvalde & Gulf Railroad at Fowlerton, an additional distance of about 150 miles. Mr. Eldridge owns 48 per cent of the stock of the San Antonio, Uvalde & Gulf.

The charter of the Rio Grande Railway Company has been amended to provide for this extension plan to reach San Antonio, 275 miles from Brownsville, with a branch to run from Santa Elena, Starr county, to Rio Grande City, 40 miles, and another branch from Santa Elena to Falfurrias, 38 miles. While the charter provides for building the main line through to San Antonio, it gives permission to connect with the San Antonio, Uvalde & Gulf, if desired, at some point near that city. Application will be made to the Interstate Commerce Commission for authority to carry out the proposed work.

Motor Transportation Products Provide 2,000,000 Carloads of Freight Annually.

Two million freight carloads of motor-transportation products are carried over the railroads of the United States annually, according to a survey just completed by the Traffic Department of the National Automobile Chamber of Commerce. This figure is regarded as highly significant of the interrelationship of the two modes of transportation, in view of the statement that the total is more than 36 per cent larger than that provided by any single manufacturing group. Automobiles, trucks and parts alone provide 740,578 carloads. To this figure is added the shipments of tires, cement for highways and gasoline consumed by motor vehicles. Another large classification on which detailed figures are not available is the volume of raw materials, such as coal, steel, copper, aluminum, lead, lumber and other items used in automobile manufacture, as well as sand, gravel and stone shipped for highway-building projects.

Georgia & Florida Railway Agricultural Booklet.

Containing numerous pictures that are reproductions of photographs taken of farms and their products, a most interesting and instructive booklet has been issued by the agricultural and industrial department of the Georgia & Florida Railway to put before the eyes of the public the outstanding advantages of the country served by its lines. Views of growing crops, harvesting and threshing scenes, illustrations of shipping methods, etc., compose the publication, which is written in an entertaining vein that holds the attention of the reader, no matter whether he is or is not contemplating a start in agriculture in the regions portrayed. A brief tribute to the boll weevil is conveyed in one of the articles about how the insect influenced the people of the South to take up diversified farming as well as cotton raising. The advantages of Georgia and Florida for all branches of agriculture are truthfully and fully set forth. W. E. French, Valdosta, Ga., is general industrial agent of the railway.

Contract for Street Railway Extension.

The Shreveport Railways Company, Shreveport, La., has let a contract to the A. C. Steere Co. of that city to build an extension of from one and one-fourth to one and one-half miles at an estimated cost of about \$100,000. This will give street railway facilities to Broadmoor, a residential suburb of Shreveport.

The Heavy Freight Movement Keeps On.

Loading of revenue freight on the railroads during the week ended April 4 totaled 922,375 cars, or more than 60,000 in excess of the corresponding week of last year, although it was a little over 9000 cars less than the preceding week of this year, where there were decreases in loadings of all commodities excepting miscellaneous freight and ore. However, the decrease in coal loadings was caused by the observance of April 1 as a holiday in the mining regions. Since January 1 there have been nearly 12,700,000 cars laden with revenue freight.

Forecast of Greater Production East.

A slightly higher level of industrial production in the eastern Atlantic states, with adequate transportation to handle it, is forecast for the second quarter of 1925, as compared with the same period of last year, in an analysis just completed by the Atlantic States Shippers' Advisory Board, 30 Vesey street, New York. The territory covered is the states of New York, New Jersey, the eastern part of Pennsylvania, Maryland, Delaware and part of Virginia. This forecast is based on reports of commodity committees for various industries made to the Board at its meeting in Philadelphia on April 9.

Southern Pacific Orders Diesel Locomotive.

A report from Philadelphia says that the Diesel locomotive which is being built by the Baldwin Locomotive Works was ordered by the Southern Pacific Company, and Julius Kruttschnitt, chairman of that railroad system, is quoted as saying that the estimated saving of fuel in a Diesel type locomotive as compared with a steam is 66% per cent. The new locomotive, as previously stated, is of the internal-combustion type and is a new departure in the construction of railroad engines so far as this country is concerned. President S. M. Vauclain of the Baldwin Works expects that the engine will be ready for a yard test in June.

Would Extend Line to a Farming Country.

Austin, Texas, April 18—[Special.]—Protest against the proposed junking of the Midland & Northwestern Railroad has been filed with the Interstate Commerce Commission by Ernest May, assistant attorney general, acting for the state of Texas. This line was built a few years ago from Midland to Seminole, Texas, 65 miles, and was taken over by the Texas & Pacific Railway, which abandoned it after operating it for a time. It traverses a ranch section in the northwestern part of Texas. Mr. May thinks that the line can be made very profitable by extending it into the rapidly developing agricultural region north of Seminole. It would cost \$216,610 to rehabilitate the road, according to L. A. Guerringer, chief engineer of the State Railroad Commission, \$169,000 being for renewing ties. "The rails are in fair shape as a rule," said Mr. Guerringer in his report. "There is not a single bridge or trestle on the entire 667 miles, a feature without parallel within my knowledge, principally because of the fact that the drainage is southeast and parallel with the general direction of the railroad."

Auto Competition as It Affects the Pennsylvania Railroad.

In the annual report of the Pennsylvania Railroad Co. for 1924 President Samuel Rea tells the stockholders important facts concerning the competition of motor vehicles with railroad trains as follows:

"Your company is endeavoring to co-operate with the motorcars and trucks, recognizing that in several localities the traffic should be handled solely by motorcars, and in others that the motorcar can supplement the rail service and bring the traffic to central points, thereby reducing operating expenses on the rail lines. The railroads have no desire to abandon a single mile of railroad, nor to reduce the service, so long as their business and the returns earned justify their retention, but when the public employs other transportation facilities to meet its needs the railroads cannot afford to run unprofitable trains or to maintain rail lines and stations that have insufficient patronage. The situation is further aggravated by the fact that not only have the railroads lost the traffic, but the increased use of the highways by the motors has created demands for the abolition of grade crossings, chiefly at the expense of the railroads, and for the payment of much higher taxes to meet the heavy costs of highway construction and maintenance."

The operating revenues of the company for the year were \$645,299,176, operating expenses \$517,450,673, and net operating income \$78,799,913. Gross income was \$109,808,834 and net income \$38,134,677, which is equal to \$3.82 per share earned on the outstanding stock, but there was added to income from sources other than operating a special dividend of \$8,000,000 from the Pennsylvania Company, which made the earnings equal to \$4.62 per share.

Naming of Freight Trains a Novelty.

The Pennsylvania Railroad has given names to 25 of its through fast freight trains instead of designating them by letters and numbers as heretofore. Many of the names are striking and are easily remembered and will doubtless be of assistance in operation and as to shipments of freight. One of the trains is called "The Gas Wagon," because it carries automobiles among its burdens. Another is named "Spark Plug," and it carries livestock and perishable freight. Still another is "The Ironmaster," because it carries freight out of Pittsburgh, the great iron and steel center, and a fourth, "The Bison," runs between Buffalo and New York, etc. Other notable names are "The Greyhound," "The Blue Goose," "The Comet," "Uncle Sam," "The Arrow," "The Bullet," "The Rocket," "The Eagle" and "The Meteor." Among the remaining names is "Star Union Line," which was the name of an old and familiar fast freight line of the Pennsylvania system prior to the World War and the taking over of the railroads by the Government, when it was abolished, but it is now revived. The official naming of freight trains is a new thing in American railroad practice.

Agent Appointed.

W. E. Scull, Jr., has been appointed traveling freight and passenger agent for the Seaboard Air Line at 101 Home Bank Building, Wilmington, N. C., succeeding the late H. G. Smallbones.

Process Company to Enlarge Plant.

Greenville, S. C.—Work on a new addition to the plant of the Southern Franklin Process Co. has begun here, plans calling for completion within 60 days. The addition will be 140 by 60 feet, two stories and basement, and will cost \$40,000. It will practically double the plant's winding capacity and will increase the total number of employees from 150 to 200. B. S. Phetteplace is general manager of the plant, which is a subsidiary of the Franklin Process Co. of Providence, R. I.

TEXTILE

Contract for Dalton's New \$1,000,000 Mill.

Dalton, Ga.—Contract has been awarded by the Boylston-Crown Mills to the Gallivan Building Co., Greenville, S. C., for the erection of their new \$1,000,000 textile mill here. Plans for the mill building, designed by Robert & Co., Inc., engineers, of Atlanta, call for a two-story structure, 125 by 200 feet, of steel and brick construction. Contract has been awarded to the Lagrange Lumber & Supply Co., Lagrange, Ga., for the erection of 27 mill cottages, work to begin on both contracts about May 1.

As previously reported by the MANUFACTURERS RECORD, the Boylston-Crown Mills have been organized by interests identified with the West Boylston Manufacturing Co. of Easthampton, Mass. The new company will have an initial capital stock of \$900,000, with privilege of increasing to \$2,000,000.

Cotton Receipts and Shipment.

Exports of cotton for the week of April 11-17 amounted to 148,674 bales, compared with 80,140 bales the previous week and 76,096 bales for the corresponding week last year. Cotton exports from August 1 to April 17 amounted to 7,160,699 bales, compared with 4,866,939 bales for the corresponding period last season.

COTTON MOVEMENT FROM AUGUST 1, 1924, TO APRIL 17, 1925,
WITH COMPARISONS.

	1925	1924
	Bales	Bales
Port receipts	8,653,739	6,101,134
Port stocks	799,139	564,965
Interior receipts	9,817,871	6,929,815
Interior stocks	630,689	517,534
Into sight	14,463,765	10,388,739
Northern spinners' takings	1,682,434	1,587,577
Southern spinners' takings	3,560,117	3,299,226
World's visible supply of American cotton	3,271,520	2,018,499

Arkansas Textile Company Now Operating.

Pine Bluff, Ark.—The new mill erected here by the Arkansas Textile Co. has been completed and put in operation. The plant is equipped with 10,000 spindles for the production of cotton cloth and will employ 250 operatives. It will be served by the Arkansas Light & Power Co. of this city. The Arkansas Textile Co. is capitalized at \$400,000, with the following officers: William Nichol, Pine Bluff, president; C. D. Stewart, Amsterdam, N. Y., first vice-president; L. W. Quattlebaum, Pine Bluff, second vice-president; Leroy A. Beers, Amsterdam, treasurer and general manager, and J. E. Boyce, Pine Bluff, assistant treasurer and secretary.

Yarbrough Mills, Incorporated.

Durham, N. C.—Organization of Yarbrough Mills, Inc., to which reference has previously been made by the MANUFACTURERS RECORD, has been effected with the selection of the following officers: A. J. Pollard, president; W. J. Berry, vice-president; S. F. Darnell, secretary, and E. S. Yarbrough, treasurer and manager. The new enterprise is capitalized at \$150,000 and will install 100 looms for the production of novelty textiles. It is being promoted by the Chamber of Commerce.

Building Textile Mill Supply Plant.

Johnson City, Tenn.—Permit has been obtained by the Jordan Manufacturing Co., Monticello, Ga., for the erection of one building of its proposed plant at Johnson City for manufacturing bobbins, spools and textile mill supplies. This structure will be two stories and will be used as a storage house and dry kiln. A brick building for manufacturing purposes will be started within a few weeks.

GOOD ROADS AND STREETS

To Construct 28 Miles in Louisiana.

Baton Rouge, La.—Bids will soon be received by the Louisiana Highway Commission at its office in this city for the construction of four road projects embracing a total of more than 28 miles. On April 28 proposals will be received for 7.515 miles of gravel on the Kenner-Shrewsbury road, the date being postponed from April 14. Bids will be received until May 7 for 10.7 miles of the Clinton-Greensburg highway in Feliciana parish, including the Amite River bridge, and for 1.43 miles of the St. Francisville-Clinton highway in the same parish. Proposals will be received until May 12 for 8.96 miles of the Homer-Farmerville highway in Claiborne parish.

Richland County Memorial Bridge.

Columbia, S. C.—Work is expected to begin within a few weeks on a \$500,000 bridge to be constructed by Richland county over Congaree River at the foot of Gervais street, in this city, as a memorial to its World War soldiers. A commission composed of J. Pope Matthews, John J. Earle and R. Charlton Wright will supervise construction of the bridge, plans for which are being prepared by the State Highway Department.

To Build 37 Miles at Cost of \$750,000.

Groveland, Fla.—Communities of Groveland, Mascotte and Okahumpka have voted to create special tax district No. 7 for the purpose of issuing \$750,000 of bonds to build roads in accordance with specifications of the state road department. Roads to be constructed include one from Helena Run through Okahumpka, Mascotte and Groveland to the Polk county line, and from Sumter county line east to Parker's Crossing, about three miles from Groveland.

To Award \$330,000 Road Contract.

Goldsboro, N. C.—According to information received in this city, the State Highway Commission will award contract about the first of May for paving the Wayne county link of the Central highway. This section, which will complete the hard-surfacing between Kinston and Greensboro, will extend from Goldsboro to the Johnson county line, a distance of 11 miles. It will cost approximately \$330,000.

Vote on \$2,000,000 for Roads and Courthouse.

Fort Lauderdale, Fla.—A meeting will be held on April 28 by the Broward County Board of Commissioners to arrange details for holding an election on May 12 on \$1,500,000 of road bonds, and \$500,000 of bonds to build a new courthouse. In the event of a favorable vote on the courthouse bonds, it is said that plans for the building will be prepared at once.

Asks Bids on 46 Miles.

Breckenridge, Texas.—Bids will be received until May 9 by E. E. Conlee, auditor of Stephens county, for road construction involving more than 46 miles. Detailed plans and specifications of the work may be obtained from V. H. Moore, county engineer, Breckenridge.

Carteret County to Spend \$700,000.

Beaufort, N. C.—At a special meeting of the Carteret County Board of Commissioners, recently held here, a resolution was adopted authorizing the issuance of \$700,000 of bonds for the construction of roads throughout the county. George J. Brooks of this city has been engaged as engineer.

Notes on Good Roads Construction.

The city of Waco, Texas, will vote May 16 on a bond issue of \$250,000 for street improvements.

Safety Harbor road and bridge district of Pinellas county, Florida, has voted a bond issue of \$425,000 to build roads.

Stephens county, Joe Tillerson, clerk, Duncan, Okla., has voted a bond issue of \$245,000 of road and bridge bonds.

Polk County Commissioners, Bartow, Fla., have awarded contracts for 31 miles of roads in the vicinity of Fort Meade to cost \$280,000.

Dyer county, L. L. Pace, clerk, Dyersburg, Tenn., has sold \$1,000,000 of road bonds to I. B. Tigrett & Co., Jackson, Tenn., and Caldwell & Co., Nashville.

The Maryland State Roads Commission, Baltimore, has awarded contracts for five projects covering more than five miles to cost about \$145,000.

Palm Beach County Commissioners, West Palm Beach, Fla., have called an election for May 12 on \$990,000 of bonds for the construction of Everglades roads.

Harrison County Court, Clarksburg, W. Va., has called an election for May 5 in Grant district on a bond issue of \$350,000 for the construction of 12 miles of road.

The city of Cleburne, Texas, C. H. Teesdale, engineer, has awarded contract at \$161,662 to the West Texas Construction Co., Fort Worth, for paving on several streets, construction to be of Warrenite bitulithic on a concrete base.

Bids will be received until April 29 by the York County Permanent Roads Commission, York, S. C., for hardsurfacing the York-Rock Hill road. Contract will be let in two sections and work will begin simultaneously at York and Rock Hill. The distance is 15 miles, but as two miles are in the corporate limits of the towns the stretch to be paved will cover 13 miles.

\$460,000 for New Paving in Birmingham.

Birmingham, Ala.—Ordinances for new street paving in this city to cost \$460,000 have been completed by A. J. Hawkins, city engineer, and there is said to be no opposition to their adoption. Contracts for the work provided by the ordinances will probably be awarded on April 28.

Alabama Contracts for Over \$250,000.

Montgomery, Ala.—Contracts for road and bridge work aggregating more than \$250,000 have been awarded by the State Highway Commission at its office here. Work will include a sand-clay road in Covington county to cost \$4932; three sections covering 24 miles in Autauga county, \$181,415, and bridges on this project to cost \$68,497.

Thirty-two Miles of Gravel Roads.

Baton Rouge, La.—Proposals will be received until April 30 by the Louisiana Highway Commission, at its office in this city, for the construction of four state and one Federal-aid road projects covering approximately 32 miles. The roads will be of gravel and will embrace 7.15 miles of Federal-aid road in Union parish, 9.24 miles on state road in Franklin parish, 4.43 miles in St. Landry parish, 3.83 miles in Natchitoches parish and 7.15 miles in Vermilion parish. Plans and specifications may be seen at the office of the commission.

LUMBER AND BUILDING MATERIALS

Lumber Industry Enjoys Seasonal Expansion.

Washington, D. C., April 16.—According to reports received today by the National Lumber Manufacturers' Association from 369 of the larger commercial softwood lumber mills of the country, the lumber industry is in full tide of seasonal expansion. New business and production were substantially the same for last week as for the week before, though shipments fell off notably. The margin of new business for last week over the corresponding week of 1924 was surprisingly large; shipments also showed a comfortable margin of increase, and in production there was a probable gain, although a fewer number of reporting mills this year show a slight nominal decrease.

The unfilled orders of 247 Southern Pine and West Coast mills at the end of last week amounted to 623,315,892 feet, as against 613,906,285 feet for 251 mills the previous week. The 129 identical Southern Pine mills in this group showed unfilled orders of 228,657,582 feet last week, as against 229,991,470 feet for the week before. For 118 West Coast mills the unfilled orders were 394,648,310 feet, as against 384,004,815 feet for 122 mills a week earlier.

Altogether the 369 comparably reporting mills had shipments 97 per cent and orders 100 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 105 and 103, and for the West Coast mills 102 and 108.

Of the comparably reporting mills 344 (having a normal production for the week of 218,825,921 feet) reported production 102 per cent of normal, and orders 105 per cent.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past week	Corresponding week 1924	Preceding week 1925 (revised)
Mills	369	382	378
Production	242,112,456	241,943,575	243,943,575
Shipments	234,884,805	225,451,692	256,371,984
Orders	243,168,904	208,710,750	241,782,908

The following revised figures compare the lumber movement for 15 weeks of 1925 with the same period of 1924:

	Production	Shipments	Orders
1925	3,438,251,990	3,410,871,991	3,301,433,470
1924	3,470,073,347	3,522,205,323	3,343,391,794
1925 Decrease	31,821,357	111,333,332	41,958,324

The West Coast Lumbermen's Association wires from

LUMBER MOVEMENT FOR FIFTEEN WEEKS, AND FOR THE WEEK ENDING APRIL 11.

	Production		Shipments		Orders	
	1925	1924	1925	1924	1925	1924
Southern Pine Association:						
Total	1,146,477,080	1,118,423,095	1,087,421,829	1,099,932,239	1,074,186,498	1,081,014,918
Week (129 mills)	71,899,844	72,760,098	75,510,566	67,784,745	74,176,678	68,963,790
West Coast Lumbermen's Association:						
Total	1,467,555,653	1,495,844,421	1,493,943,754	1,517,923,209	1,466,152,015	1,440,724,278
Week (11 mills)	101,978,762	98,302,995	104,147,792	103,477,239	109,874,470	90,562,260
Western Pine Manufacturers' Ass'n:						
Total	336,996,000	395,323,000	393,704,000	456,731,000	372,436,000	466,444,000
Week (38 mills)	35,105,000	34,653,000	28,524,000	24,694,000	32,944,000	20,600,000
California Redwood Association:						
Total	117,738,000	128,733,000	104,425,000	111,389,000	106,730,000	114,101,000
Week (15 mills)	6,387,000	8,090,000	7,450,000	4,900,000	7,281,000	6,529,000
North Carolina Pine Association:						
Total	119,923,457	119,409,361	120,782,808	119,150,207	98,627,957	111,237,598
Week (44 mills)	8,411,550	12,647,312	7,106,547	12,291,340	6,536,756	10,187,700
Northern Hemlock and Hardwood:						
(Softwood) total	49,971,000	32,044,000	36,960,000	33,883,000	27,899,000	29,804,000
Week (15 mills)	1,624,000	650,000	1,843,000	1,811,000	1,717,000	1,957,000
Northern Pine Manufacturers' Ass'n:						
Total	105,775,800	102,292,470	120,107,600	128,993,668	112,896,000	143,149,000
Week (10 mills)	12,200,300	9,815,170	8,426,900	7,443,368	9,106,000	7,634,000
General total for 15 weeks	3,344,436,990	3,392,069,347	3,357,344,991	3,468,002,323	3,258,927,470	3,286,474,794
Northern Hemlock and Hardwood:						
(Hardwood) (15 weeks)	93,815,000	78,004,000	53,527,000	54,203,000	42,506,000	56,917,000
California White and Sugar Pine:						
Total	*128,788,000	132,289,000	*235,500,000	216,511,000	*218,955,000	
Week (10 mills)	10,560,000	14,051,000	9,649,000	11,407,000	10,747,000	14,450,000
General total for week	242,112,456	241,943,575	234,884,805	225,451,692	243,168,904	208,710,750

*Revised figures not included in general totals. Represents about 75 per cent total production California pine region.

Seattle that new business for the 118 reporting mills for the week ending April 11 was 8 per cent above production and shipments were 5 per cent below new business.

The Southern Pine Association reports from New Orleans that for the 129 mills reporting, shipments were 5.02 per cent above production, while orders were 3.17 per cent above production and 1.77 per cent below shipments for last week. Of the 87 mills reporting running time, 75 operated full time, including 15 on overtime, 10 of the latter on double shift. Four mills were shut down and the rest operated from one to five days. Orders received were 1.5 per cent below those of the previous week. Shipments decreased 0.1 per cent and production 6.3 per cent.

The Western Pine Manufacturers' Association of Portland, Ore., reports marked gains in production and new business and a good gain in shipments last week as compared with a week earlier.

The California Redwood Association of San Francisco reports a small decrease in production, and good gains in shipments and new business.

The North Carolina Pine Association of Norfolk, Va., reports marked decrease in all three factors, with seven fewer mills reporting.

The Northern Hemlock and Hardwood Manufacturers' Association of Oshkosh, Wis. (in its softwood production), reports production about one-third less than for the preceding week, shipments practically the same and a considerable increase in new business.

The Northern Pine Manufacturers' Association of Minneapolis reports a good gain in production, little change in shipments and a marked gain in new business.

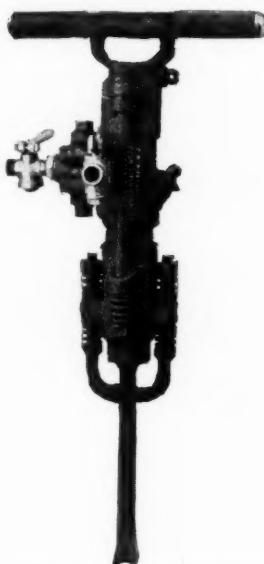
Will Build \$300,000 Brick Plant.

Plans have been announced by the Stephenson Brick Co. of Birmingham for the construction of a large brick plant at Cordova, Ala. Discussing details of the new enterprise, the company wires the MANUFACTURERS RECORD that the plant will manufacture buff stiff, mud face brick, and also manganese grays. Sixteen acres of clay land have been purchased for the plant, which will represent an investment of \$300,000. It is stated that it will employ 150 men and have a capacity of 40,000 brick per day.

MECHANICAL

Drill With Novel Features.

An improved hammer drill that possesses some distinctive features has lately been introduced in the market. It is air operated and the compressed air admitted through the ports to operate the piston does not return the same way, but it escapes from the tool as soon as the piston has traveled its working distance, giving a very hard and quick blow, a speed, which it is remarked, is not obtained otherwise.



NEW DRILL COMPLETE.

The improved steel puller will, the manufacturers state, bear all the strain which a drill runner can exert upon it; it has two springs on top and two springs on the bottom, so that breakages do not happen. Furthermore, the hole cleaner is described as perfect in operation. By turning a thumb nut the compressed air blows the cuttings from the hole, and when it is turned to the opening it stays there, giving full air pressure to the drill. Its construction makes it "stay put."

It is further reported by the makers of this tool—the Wood Drill Works, Paterson, N. J.—that recently in a test one of these drills was run in competition with several other well-known hammer drills, and it drilled a 10-foot hole 14 inches ahead of its nearest competitor. The company has been making drills for 35 years.

Giant Turbo-Generator.

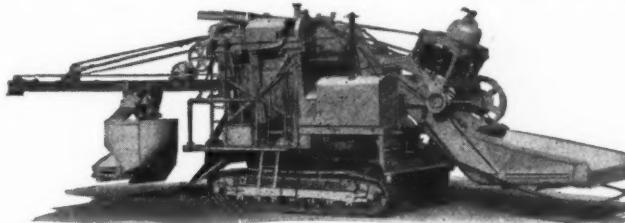
The picture herewith shows part of a 45,000-horsepower turbine from the South Philadelphia Works of the Westinghouse Electric & Manufacturing Co., now being erected in the power plant of the Los Angeles Gas & Electric Co., Los Angeles, Cal. A conception of its great size may be had by observing the attendant standing on the lower observation platform. The unit has an operating speed of 1800 revolutions per minute, while it requires 140 tons of water an hour converted into steam to operate the turbine at full load. The steam enters the turbine at a pressure of 350 pounds at a temperature of 700 degrees, coming out at a temperature of less than 80 degrees under a vacuum of 29 inches.

This is an unusual detail picture of the heart of the turbine, showing the maze of minutely fashioned blades—approximately 5000—of the Westinghouse turbine rotor, or "spindle." Though only 25 feet in length, this piece of machinery weighs 115,000 pounds. At full speed the outside diameter of the spindle, on the left, is running nearly 10 miles per minute, or a little less than 600 miles per hour. The problem of excessive heat resulting from such tremendous speed has been overcome by working the bearings under forced lubrication, about two barrels of oil being circulated through the bearings every 60 seconds to lubricate and carry away the heat generated by the rotation.

Improved Paver With New Spreader.

Highway officials and contractors will be particularly interested in an improved paver capable of faster operation, and also an improved concrete spreader attachment for the machine, both of these devices having been placed on the market recently by the Chain Belt Company, Milwaukee, Wisconsin.

The paver—Rex 21-E, 1925 Model—was exhibited at the



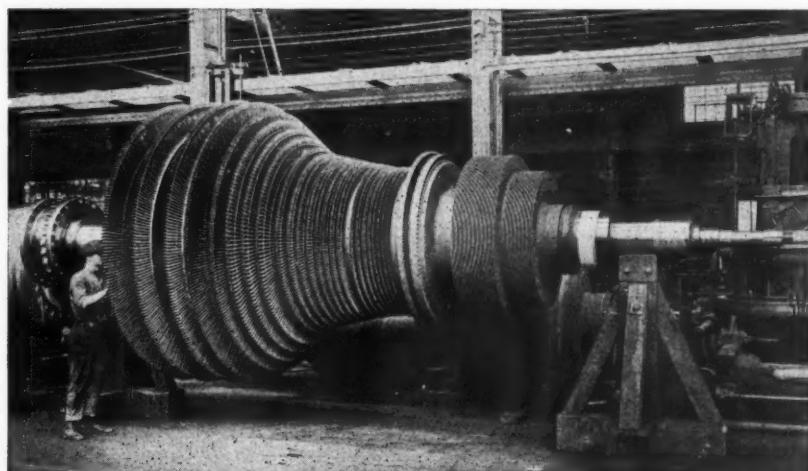
IMPROVED PAVING MACHINE.

late road show in Chicago. It has 21 improvements, it is stated, as compared with last year's model, and, in addition to increased speed of operation, the builders have concentrated on shock absorption, notably in the extension of chain drives and the mechanism of the boom and the bucket. The



SHOWING NEW SPREADER IN ACTION.

machinery for getting the material in and out faster is built around the wide drum openings, free from obstructions, and the stream-line charging skip, with an exceptionally large throat opening, discharging at an angle of 48 degrees, charges the drum in about nine seconds from the time the skip leaves the ground. In and out the material moves fast without hindrance. The boom and bucket take the entire batch at a loading and automatically distribute it as a con-



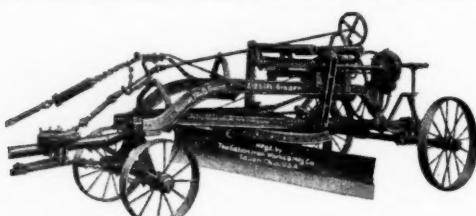
HUGE ROTOR OF THE TURBO-GENERATOR

crete ribbon over the proper area, and the spreader is adjustable.

This spreader attachment consists of a heavy bent-steel plate hung on pivots in a steel frame, with a screw and a hand wheel for adjusting it. The frame is riveted to the bucket, while the bent plate, being pivoted, can swing freely in one direction. On the outward trip of the loaded bucket the plate is free to pass over grade stakes or similar obstructions, but on the return trip empty a cross-bar acts as a stop and holds the plate in position while spreading the discharged batch. Slabs of any desired thickness can be easily spread, and the device is especially valuable for two-course work or when laying wire mesh. Considerable hand labor can be dispensed with.

Road Grader With New Features.

In the accompanying illustration is shown a new and easily operated road grader, one which is distinguished by the unusual feature of cut worms and cut gears, that are enclosed in oil-tight gear cases so that they run easily and safely in a steady bath of oil. This machine is made by the Galion Iron Works & Machine Co. of Galion, Ohio, who have named it "E-Z Lift Giant No. 8 Road Grader." In describing it they say that in its construction they use a special strong and heavy tee bar semi-circle, and a special strong and heavy tee



GRADER READY FOR THE ROAD.

bar frame, the frame just being twice as heavy as on the ordinary machine. It is equipped with Hyatt self-lubricating roller-bearing wheels, oil proof and dust proof. It does not require attention from the operator because of its special lubricating features, and while it does not actually run itself the builders say that it almost does so. It is made in five sizes.

Another machine built by this company is their new junior (Fordson) roller and power maintainer, which planes, scaries, rolls and maintains a road, and still another is their new 12-foot planer and maintainer, made to work behind a team or behind a tractor.

Heavy Importation of Fertilizer Material at Charleston.

The News and Courier of Charleston, S. C., reports that large quantities of fertilizers of all kinds were imported through that port during the calendar year 1924, with sodium nitrates, forming 75 per cent of the total, heading the list. The total quantity received was 266,159 tons, including all the various kinds of fertilizer materials, valued at \$7,963,780.

The list of these materials and their value follows: 142,001 tons of sodium nitrates, valued at \$5,962,151; 5 tons of calcium nitrates, valued at \$50; 6884 tons of guano, valued at \$239,486; 4396 tons of nitrogenous fertilizers, valued at \$153,726; 11,915 tons of calcium cyanide, valued at \$360,383; 758 tons bone phosphates, valued at \$31,016; 5500 tons crude phosphates, valued at \$44,780; 11,511 tons of crude chloride potash, valued at \$358,884; 3938 tons of crude sulphate potash, valued at \$164,891; 34,383 tons of kainit, valued at \$151,188; 31,334 tons of manure salts, valued at \$301,931; 750 tons dried blood, valued at \$44,564; 2014 tons of tankage, valued at \$46,161; 10,761 tons of all other fertilizers, valued at \$104,569.

Commendations, Kicks and Comments

The South to Dominate the World's Trade.

L. J. BUGG, Law Offices of Barnett, Bugg, Lee & Jones, Monroeville, Ala.—"The South's Development" is the greatest publication of the kind it has ever been my pleasure to examine. You are certainly doing a great work in behalf of the South and you have my very best wishes in your efforts.

At the request of one of the candidates for the Democratic nomination for President, I "scouted" a large portion of the country for him last spring and during the time I traveled about 25,000 miles, going into Texas two or three times, also New Mexico, Arizona, Florida, Georgia and other states. The only place where I found any land which is equal to our own in South Alabama for general farming purposes was between Houston and Dallas, Texas. On the line of the Southern Pacific between these two cities they have some of the richest black farming lands in the world, and I was informed that they seldom ever have a crop failure in that area. There are also some very fertile lands in New Mexico and Arizona, but they have to be irrigated and this costs about \$10.00 per acre per annum for water, which makes it about as expensive as the commercial fertilizer we use on our lands in South Alabama and West Florida.

Florida, especially the East Coast, is going to become the playground of the United States. It will outstrip California within the next ten to fifteen years. I think the Gulf Coast section of the United States will some day dominate the world; that it is going to become to the New World what the Mediterranean sea section was to the Old World, because it is rich in soil, coal, iron ore, timber and oils—the things that produce wealth and power—and for general as well as diversified farming purposes it is not excelled by any other like area in the world. The main thing we need now to more rapidly develop this section is hydro-electric power. The improvement in roads and schools is ahead of the power development at the present time, but we are hoping for more rapid power development in the near future.

Commends Our Deflation Fight.

J. M. WADDELL, Sr., Boydell, Ark.—I am in accord with Mr. Galtkill (whose letter appears on a cover page), except his tariff ideas, and if I knew I could not read a line in the RECORD during this year I would pay the subscription. If the South had accepted and encouraged protection forty years ago it would have advanced us greatly. I admire your brave fight against deflation. The hands of every member of the Reserve Board who favored deflation are red with the blood of deflated suicides, and their end is not yet.

An Influence for Good.

J. H. DOWLING, The Dowling Company, Odessa, Fla.—We are enclosing our check for renewal subscription of your valuable paper, and we feel that we would be doing ourselves a great injustice were we to fail to make available to our organization the vast amount of valuable information which you disseminate in your paper weekly. We believe that the sound truths which you are preaching for the upholding of the laws and moral side of our Government are one of the greatest influences for the cause of prosperity in our land today.

Views of a Minister.

A. C. MAXWELL, Pastor Calvary Baptist Church, Beaumont, Tex.—The MANUFACTURERS RECORD will find ready response in the heart of all true American readers. Its editorials are burning with sincere Americanism, to say nothing of the array of helpful statistics presented. I read with special delight your front page editorial March 5, "Are Our Colleges Destroying Our Americanism?" This able article deals both frankly and fairly with this very important subject. So mote it continue.

Will Awaken a Nation-wide Interest in the South.

CALLY RYLAND, Director Publicity the Union Bank of Richmond, Richmond, Va.—"The South's Development" is by long odds the most valuable and interesting contribution to Southern publicity we have ever seen, and we believe it will awaken a widespread interest throughout the country in the South's commercial and agricultural aspects.

A Complete Survey.

HOMER HANCOCK, Commissioner Department of Agriculture, State of Tennessee, Nashville.—In my judgment "The South's Development" is by far the most complete publication covering Southern opportunities ever issued. The whole South should and does commend you for your efforts in this direction. It is a wonderful survey of Southern resources, Southern activities and Southern opportunities.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Alabama—State Highway Comm., Montgomery, Ala. See Road and Street Construction.

Ala., Albany-Decatur—State Highway Comm., Montgomery, receives bids May 20 for highway bridge across Tennessee River at Albany-Decatur, on Bee Line Highway; cost \$400,000.*

Alabama—See Road and Street Construction.

Ala., Mobile—City Comm. is considering plans for tunnel under Mobile River at foot of Government St. as approach to proposed Mobile-Baldwin Bridge; Harry T. Hartwell, Mayor.

Ala., Montgomery—City Comm. plans constructing culvert in Oak Park section; also plans laying sidewalks on Second St., in Oak Park section, from Forest to Mulberry.

Ala., Selma—City, T. J. Rowell, Mayor, plans bridge over Valley Creek at foot of Dallas Ave.; plans voting about May 27 on bonds; Luten Bridge Co., Atlanta, preparing plans.

Ark., Van Buren—See Road and Street Construction.

Fla., Avon Park—Salmons-Clements Co., 9 State St., Charleston, S. C., was awarded contract to build underpass at Avon Park, where Seaboard Air Line R. R. goes under Atlantic Coast Line road.

Fla., Clearwater—Pinellas County Commrs. receive bids May 5 to reconstruct bridge across drainage canal on Haines Road north of Pinellas Park.

Fla., Inverness—Citrus County Commrs. plan 2 viaducts on State Road No. 5 over A. C. L. and S. A. L. Railways; J. K. Kelly, Chmn., E. V. Camp and Associates, Engrs., Moreland & DeKalb Aves., Atlanta, Ga.

Fla., Milton—Santa Rosa County Commrs. let contracts to repair 2 bridges: Over Escambia River, J. S. Hobby and A. P. Nicholson; over Coldwater Creek, G. H. McArthur.*

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids May 14 for 2 bridges: Terrebonne Parish, Minor Canal Bridge on Houma-Gibson road, 7 mi. west of Houma, 30-ft. steel I-beam channel span, 16,000 lbs. structural steel, 1100 lin. ft. creosoted piling; Lafayette and Vermilion Parishes, over Bayou Isle Des Cannons on Lafayette-Abbeville Highway, about 7 mi. south of Lafayette, twelve 19-ft. panels, 4 pile bents, 1600 lin. ft. creosoted piling; plans, on file; W. B. Robert, State Highway Engr.

La., St. Francisville—Louisiana Highway Comm. will build 2 bridges. See Road and Street Construction.

Md., Easton—Talbot County Commrs. plan building bridge over Knapps Narrows at Tilghman.

Miss., Gulfport—Harrison and Jackson Counties Board of Supvrs. plan expending \$400,000 for bridge over Bay of Biloxi connecting Biloxi with Ocean Springs.

Miss., Jackson—City plans building concrete underpass at Monument St.; votes May 16 on bonds. Walter A. Scott, Mayor; M. S. Culley, City Engr.

Miss., Purvis—T. C. King and J. T. Purvis, of Purvis, awarded contract at \$15,000 for bridge over Black Creek, 4 mi. south of Purvis, on Jackson Highway; also contract for bridge over Carter's Creek near Lumberton.

N. C., Charlotte—Wateree Power Co. let contract to E. H. Clements & Co., Charlotte, at about \$75,000, to raise Catawba River bridge 10½ ft. between Mecklenburg and York Counties.

Okla., Chandler—City plans expending \$25,000 to rebuild Ninth St. viaduct; Ben-

ham Engineering Co., 512 Gumble Bldg., Cons'tl. Engr., Kansas City.

Okla., Frederick—Tillman County Commrs. grant franchise to J. A. and J. I. Staley, Wichita Falls, Tex., to build creosoted-piling bridge across Red River south of Davidson, completing last link in Lee Highway from New York to San Francisco.

Okla., Walters—Cotton County plans building free bridge over Red River between Walters and Wichita Falls, Tex. Address County Commrs.

Tenn., Columbia—Maury County, F. B. Wilkes, Supt. of Roads, let contract to J. R. Shackelford, Mt. Pleasant, for 3 bridges: Over Terrapin Branch, Rutherford Creek and Love's Branch.*

S. C., Lancaster—Lancaster County has let contracts for 6 bridges and 2 culverts: Cooper-Haven Cement Co., Monroe, N. C., at \$20,803 on projects 4, 9, 10; J. S. Bowers, Whiteville, N. C., at \$7290, for projects 6 and 7; D. N. Rickenbaker, Lancaster, on project No. 3; Lathan Bros., Lancaster, project No. 8; M. C. Hughes, Jr., Lancaster, project No. 5.*

Tex., Anson—See Road and Street Construction.

Tex., Houston—City plans building permanent bridges; voted \$1,100,000 bonds; Wm. A. Moore, Sec.*

Tex., Palestine—See Road and Street Construction.

Tex., San Antonio—City receives bids May 1 for reinforced concrete bridge across San Antonio River at St. Mary's St., between College and Commerce, estimated cost \$33,000; Terrell Bartlett Engineers, 612 Calcasieu Bldg.*

Tex., Sweetwater—Nolan County receives bids May 9 for 4 concrete pile trestle bridges on State Highway No. 70, from Sweetwater south; John A. Focht, County Engr.; A. S. Mauzy, County Judge.

W. Va., Charleston—Kanawha County plans building 4 bridges; contemplates bond election. Address County Commrs.*

W. Va., Huntington—Cabell and Wayne Counties will let contracts after July 1 for 2 bridges: Across Raccoon and Boone's Creeks; plan improving roads, including road from Beach Fork through Long Branch into Huntington; J. M. Oliver, Cabell County Engr.

Canning and Packing Plants

Ala., Selma—Anderson Packing Co., Indianapolis, Ind., considering location of packing plant.

Fla., Winter Haven—See Land Development.

Md., Cordova—Cordova Packing Co., Inc., capital \$25,000, incorporated; Harry A. Moore, Clayton C. Wilson.

Md., Snow Hill—Farmers Canning Co., capital \$100,000, incorporated; Robert N. Stagg, Charles S. Timmons.

Miss., Crystal Springs—Uddo Bros. Co., New Orleans, La., have acquired outfit of Crystal Springs Canning plant and will install new machinery.

Va., Hot Springs—Harvey Pittman, Garland County Canning Co., will erect cannery on S. Central Ave.

W. Va., Milton—R. A. Gillam, Montvale, Va., reported interested in cannery.

Clayworking Plants

Ala., Cordova—L. L. Stephenson of Stephenson Brick Co., 2027 4th Ave., N., Birmingham, lately noted to have acquired 16-acre site for erection of brick plant, wires that new plant will manufacture buff stiff mud-face brick, also manganese grays, \$300,-

000 investment; 16 acres clay land purchased.*

Ala., Selma—Wootson L. Sanderson, Pres. Improved Brick and Stone Co., Meridian, Miss., reported interested in brick plant.

Coal Mines and Coke Ovens

Md., Baltimore—Williams Coal Co., Inc., Braddish Ave. and Western Maryland R. R., capital \$30,000, incorporated; John B. Rogers, Lewis Williams.

Okla., Warner—The Trojan Coal Co., Muskogee, Okla., will expand mining facilities, build 25 miners' houses.

Tex., Bastrop—Joe Oriotti of San Antonio, reported, have acquired holdings of the Consumers Coal Co.; will operate.

W. Va., Princeton—The Pocatello Coal & Coke Co., capital \$25,000, incorporated; H. W. Straley, II, Alexander Mahood.

Concrete and Cement Plants

Ky., Paducah—Paducah Concrete Products Co., Lacy Peyton, Pres., 511 Trimble St., will erect 24x120-ft. building, wood and concrete, gravel roof, concrete floor; install Universal block and brick machines, Blystone mixers, etc.; manufacture concrete blocks, bricks, etc., daily output 1000.*

Okla., Dawson—Mid-Continent Portland Cement Co., Atlas Bldg., Tulsa; A. L. Farmer, Pres.; Arthur H. Craver, Sec., reported, contemplates establishing \$1,500,000 plant, to manufacture cement, daily output 2500 bbls.

Tenn., Chattanooga—Signal Mountain Portland Cement Co., James Bldg., John L. Senior, Pres., contemplates installing waste heat boiler plant, in connection with kilns and the building of power house to generate electric power for entire plant and quarry operation; has \$20,000 office building under construction.

Va., Alexandria—The Stresbilt Tile Co., Inc., will move to new location on Cameron St., install additional machinery, increasing capacity; equipment all purchased.

Va., Richmond—Concrete Pipe & Products Co., Inc., Jack M. Parrish, Pres., 825 American National Bank Bldg., has begun construction of \$15,000 plant, brick and frame, concrete floors, frame roof, 160x100-ft., install \$15,000 equipment; daily output 2000 ft. concrete sewer pipe; machinery furnished by McCracken Machinery Co., Sioux City, Iowa.*

Cotton Compress and Gins

Ark., Armstrong Springs—Butler Gin Co., capital \$10,000, incorporated; O. B. Henderson, Pres.; John Q. Adams, Sec.

Ark., Sheridan—Charles Harris is rebuilding burned cotton gin.

Ga., Tifton—Perfection Gin Co. will erect cotton compress.

Okla., Ardmore—Carter County Co-Operative Gin Co. contemplates establishing cotton gin.

Okla., Kingfisher—Frederick Seeds Farms, Frederick, interested in erection of cotton compress.

Okla., Mountain View—Farmers Independent Gin Co., capital \$30,000, incorporated; Henry Higgins, O. M. Hollis.

Okla., Thomas—Neil B. Gardiner, Sentinel, will construct cotton gin.

Cottonseed-Oil Mills

Miss., Yazoo City—Planters Cotton Oil Co., J. O. Ashworth, Kosciusko, has plant, daily output 125 tons cottonseed products. (See Machinery Wanted—Cottonseed Oil Plant Equipment.)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Ola., Ardmore—Choctaw Cotton Oil Co. rebuild burned hull house; materials purchased; construction by company's forces.*

Ola., El Reno—Chickasha Cotton Oil Co. will construct \$20,000 plant; electrically operated.

Tex., Clarksville—Clarksville Cotton Oil Mill is rebuilding burned portion of plant.

Tex., Clarksville—Clarksville Gin and Seed Co. will install electric motors; capacity 5000 bales per season.

Drainage and Irrigation

Fla., New Smyrna—Charles W. Harris and associates, interested in organizing system to drain Turnbull Hammock; A. S. Robinson, local Engr.

Fla., Palm Beach—See Land Development.

Fla., Winter Haven—See Land Development.

Ola., Dewey—E. E. Blake, State Commr. of Drainage and Irrigation, and Dewey Kwanis Club, contemplate organizing \$5,000,000 land reclamation project for overflow land of the Caney Valley, reclaiming about 50,000-acre land.

Electric Light and Power Plants

Ala., Birmingham—Alabama Power Co., Brown-Marx Bldg., reported to have begun construction of \$350,000 transmission line from Warrior steam plant to Leeds; will connect with sub-station near Red Mountain.

Ala., Mobile—City will install electric light system; Harry T. Hartwell, Mayor.

Ark., Bearden—See Ark., Sheridan.

Ark., Judsonia—Arkansas Light & Power Co., Pine Bluff, will improve lately acquired plants at Judsonia, Beebe, McRae, Kessett.

Arkansas—Missouri-Arkansas Power Co., Blytheville, reported as planning \$1,192,283 consolidation; granted permission by Arkansas Railroad Comsn., Little Rock, to issue \$953,800 bonds for acquisition of property owned by Mammoth Springs Power Co., Mammoth Springs, including water-power rights on Spring River, 2 hydro-electric plants on the river and electric distribution plants supplying Mammoth Springs, Ark., Koshkinong, Bransville and Thayer, Mo.; also control of Central Power and Light Co., Walnut Ridge, including electric power and ice plants of Walnut Ridge, street railway between Walnut Ridge and Hoxie, electric power plants at Pocahontas, Bortia, Black Rock, Imboden, Manson, Lesterville and Shannon and franchises at Success, Dalto, Reyno and Biggers; will also expend \$160,000 in improvements to ice plants at Walnut Ridge, expend \$40,000 in installation of 500 h.p. water wheel set at Mammoth Springs.

Ark., Sheridan—Arkansas Light and Power Co., Pine Bluff, acquired light plant; will rebuild distribution plant, also acquired franchise and property of I. J. Bass, Bearden.

Fla., Arcadia—See Road and Street Construction.

Fla., Bartow—See Water Works.

Fla., Bushnell—See Land Development.

Fla., Dunedin—See Water Works.

Fla., Fort Pierce—See Land Development.

Fla., Gainesville—See Land Development.

Fla., Groveland—Florida Public Service Co., 50 Pine St., New York, reported acquired Groveland Light, Power and Ice Co.'s plant.

Fla., Haines City—See Land Development.

Fla., Interlachen—See Land Development.

Fla., Jacksonville—See Land Development.

Fla., Ocala—See Land Development.

Fla., Orlando—See Land Development.

Fla., Sanford—See Land Development.

Fla., Sebring—See Water Works.

Fla., St. Petersburg—See Land Development.

Fla., Tampa—Tampa Bay Electric Co., capital \$25,000, incorporated; Roy D. Pedersen, Pres., 504 S. Oregon Ave.; J. D. Seal, Sec.

Ga., Atlanta—Georgia Railway & Power Co., Preston S. Arkwright, Pres., petitioned Georgia Public Service Comsn. for permission to issue \$4,000,000 in first preferred cumulative stock.

Ga., Camilla—Henry Barber, Elmo Barber and Hardaway Construction Co., reported to have acquired controlling interest in Baker County Power Co.; construct new dam and improve properties.

Ga., Columbus—City Comsn. will install white-way system on First Ave.; Walter A. Richards, Mgr.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Ga., Milledgeville—Interstate Public Utilities Corp., Mills Bldg., Washington, D. C., acquired plants at Milledgeville and Dublin.

Ga., Thomasville—See Land Development.

Ky., Owensboro—City, J. H. Hickman, Mayor, receives bids April 24 for brick work for new boiler installation at electric light plant.

La., Monroe—Louisiana Power & Light Co., H. C. Couch, Pres., 401 Tardin St. Pine Bluff, Ark., acquired municipal plant at West Monroe.

La., Port Allen—City granted 25 yr. franchise to Baton Rouge Electric Co., Baton Rouge.

Maryland—Consolidated Gas, Electric Light and Power Co., Herbert A. Wagner, Pres., Lexington Bldg., Baltimore, reported to extend electric lines in Baltimore, Harford and Carroll counties.

Md., Catonsville—See Land Development.

Mississippi—Mississippi Power & Light Co., C. P. Couch, V. P., Jackson, reported acquired electric light plant and system at Merigold, Mound Bayou, Hushpuckena, Duncan, Wheeler and Shelby; advices from C. P. Couch confirm report, and state that plans for improvements and construction have not been worked out.

Miss., Meridian—Meridian Light and Railway Co., reported to have been acquired by Southeastern Power and Light Co., operated by its subsidiary Mississippi Power Co., Gulfport.

Miss., Yazoo City—City contemplates installation of white way system on Main St. Address The Mayor.

Missouri—John Shafer, Odd Fellows Bldg., Indianapolis, Ind., applied to Federal Power Comsn. Washington, D. C., for preliminary permit for development on Current River in Ripley and Carter Counties; total capacity 15,000 H. P., consisting of 2 dams 50 ft. high, with powerhouse for each dam.

N. C., Asheville—See Land Development.

N. C., Brevard—Board of Aldermen let contract for installation of white way on Main St.

Ola., Ardmore—Consumers Light and Power Co. reported to construct transmission line between Madill and Ardmore; supply Mannsville with power.

Ola., Sand Springs—Cimarron Light and Power Co., capital \$20,000, incorporated; J. P. Thompson, V. A. Shiefelbusch.

S. C., Gray Court—J. Archer Willis, reported interested in establishing light and power plant.

S. C., Johnston—Broad River Power Co., Columbia, acquired electric light and ice plants at Johnston and Trenton and 10 miles of electric line; also electric plants at Batesburg and Lexington; will extend transmission lines.*

S. C., Sumter—Board of Trade received bids from Yadkin River Power Co., Raleigh, N. C., and from Livingston-Register Power Co., Kingtree, for purchase of light and power plant.

S. C., Trenton—See S. C. Johnston.

Tenn., Chattanooga—See Concrete and Cement Plants.

Tenn., Harriman—City will vote in July on sale of electric light and water works. Address The Mayor.

Tenn., Memphis—Memphis Power and Light Co. reported to construct approximately 100 miles of power lines, supplying power to rural communities in Arkansas, Hulbert, Crawfordsville and Marion.

Tenn., Crossville—Tennessee Eastern Electric Power Co., Knoxville, reported, will probably receive franchise for light and power.

Tex., Humble—Humble Power & Ice Co., capital \$50,000, incorporated; C. A. Leavens, Roland Peters.

Tex., Lubbock—Beebe-Howard Gravel & Construction Co., incorporated; O. W. Beebe, C. E. Howard.

Va., Bedford—Town, R. W. Catlin, Mgr. will install additional generators and water wheels, machinery and paving head race, concrete; extend building; construction to begin in about 30 days; cost \$63,000; Wm. C. Whitner & Co., Constr. Engr., Richmond. (See Machinery Wanted—Hydro-Electric Generating Equipment.)

W. Va., Huntington—See Land Development.

Flour, Feed and Meal Mills

Mo., Wellington—Wellington Mill and Elevator Co., capital \$10,000, incorporated; W. F. Oberhelman, Geo. Stalling.

Tex., Fort Worth—Gladney Grain Co., capital \$10,000, incorporated; S. W. Gladney, 923 W. Lenda St., J. W. Gladney.

Foundry and Machine Plants

Ala., Birmingham—American Cast Iron Pipe Co., reported, is erecting \$13,000 administration building at Thirtieth Ave. and Sixteenth St.

Fla., Bradenton—Hydraulic Concrete Building Materials Machine Co., 601 Brevard Ave., Tampa, R. McDonald, representative, reported, contemplates establishing plant, build machine to manufacture building stone.

N. C., Bryson City—Bryson City Pump Works Co., I. K. Stearns, V. P., plans rebuilding and enlarging factory, increasing output.

N. C., High Point—Shelton Woodworking Machinery Co., Thos. G. Shelton, Sec., 154 S. Main St., will erect \$10,000 building, 60x230-ft., steel building, concrete floors, galvanized roof; contract to be awarded in about 30 days; will need all necessary equipment for rebuilding woodworking machinery.

Tex., Beaumont—Pennsylvania Car Co., J. M. Walsh, reported are expending \$80,000 on additions and machinery and other physical equipment for structural steel fabricating tons, increasing monthly output to 1500

Va., Alexandria—The Blake-Palm Elevator Co. has purchased plant on Duke St.; will equip for the manufacture of passenger elevators; machinery purchased; foundry building will also be available for commercial castings.

Va., Roanoke—Road Machinery Manufacturing Corp., capital \$15,000; chartered; Fergus Bowman, Pres., 1027 Ferdinand Ave., S. W.; Chas L. Gravett, Sec.

Gas and Oil Enterprises

Ark., El Dorado—Arkansas Railroad Commn., Little Rock, granted permission to W. A. Robinson, J. W. King and associates to construct gas pipe line from Camden and El Dorado to Little Rock and Memphis.

Ark., El Dorado—Winghu Petroleum Co., capital \$10,000, incorporated; E. E. Winger, Pres.; D. F. Hugus, Sec.

Ark., Little Rock—McGregor Oil Co., capital \$30,000, incorporated; R. P. McGregor, Clay S. Henderson, State Capital.

Fla., Dania—Francis E. Starr, 2930 N. E. 3rd Ave., Miami, granted 30-year franchise; will erect \$150,000 gas plant.

Ark., Fort Smith—Co-operative Gasoline Co., capital \$10,000, incorporated; W. A. Stanton, Pres., 921 Greenwood St.; C. C. Davis, Sec.

Fla., Groveland—J. Ray Arnold of Arnold Lumber Co. reported to have acquired plant of Essential Oil Co. of America.

Fla., Sarasota—City granted franchise to A. E. Cummer and Otis Cook to install and operate gas plant.*

Fla., St. Petersburg—See Land Development.

La., Lake Charles—General Petroleum Co., Inc., capital \$25,000, chartered; H. L. Cline, C. J. Campbell, 618 Bilbo St.

Md., Cumberland—Cumberland and Allegany Gas Co. granted artificial gas franchise by Public Service Comsn., Baltimore, for operating in Cumberland, Westernport and Midland.

Miss., Jackson—Jackson Oil Co., capital \$10,000, incorporated; V. M. Maher, M. J. Conery.

Mo., Maplewood—Cruikshank Oil Co., incorporated; Richard S. Cruikshank, Glen F. Voges.

Mo., St. Louis—Petroleum Sales Corp., chartered; Harry E. Scott, Thomas R. Taylor, Fullerton Bldg.

Mo., St. Louis—Laclede Gas Light Co., 1107 Olive St., let contract to The Koppers Construction Co., Union Trust Bldg., Pittsburgh, Pa., for building 5 producers, three 10-in. and two 7-in., together with auxiliary equipment; will double output of coal gas; also let contract to same company for 12,000,000 cu. ft. liquid purification plant.*

Ola., Blackwell—Empire Gas and Fuel Co., H. L. Montgomery, Mgr., reported to construct pipe line from Blackwell to Wichita, cost \$600,000, of 10, 12 and 16-in. construction; will probably erect booster station. Company wires: "Pipeline, 57 miles Diworth to Wichita, connecting Oktot and Hubbard fields, Connor & Son, Contr., 814 New York Life Bldg., Kansas City, Mo.; equipment contracts not let; cost \$843,000; completed in 60 days."

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Oklahoma, Kingfisher—Humphrey Lubricating Oil Co., capital \$10,000, incorporated; Grant Humphreys, J. O. Humphreys.

Oklahoma, Mangum—City votes April 23 on \$85,000 bonds for distributing system; Benham Engineering Co., Constl. Engrs., 512 Gumble Bldg., Kansas City, Mo.

Oklahoma, Muskogee—Vaughan Oil Co., A. J. Vaughan, 617½ W. Okmulgee St., will erect \$10,000 warehouse on S. Cherokee St.

Oklahoma, Nowata—Jane Oil Co., capital \$150,000, incorporated; Wm. LaFavour, John Daubenspeck.

Oklahoma, Oklahoma City—Oklahoma Gas and Electric Co., J. F. Owens, Gen. Mgr., votes May 14 on doubling capital stock.

Oklahoma, Oklahoma City—Doss-McAlester Royalty Co., capital \$100,000, incorporated; A. U. Thomas, W. F. Wise.

Oklahoma, Sapulpa—City will soon vote on granting gas franchise. Address The Mayor.

Oklahoma, Sapulpa—Bartlett Gas Co., capital \$300,000, incorporated; H. U. Bartlett, H. S. Whitehead.

Oklahoma, Shidler—National Pipe Recovery Co., capital \$10,000, incorporated; A. C. Toole, Walter P. Bauer.

Oklahoma, Tulsa—Cosgrave Oil Co., capital \$20,000, incorporated; Guy E. Vaughn, Frank L. Tack.

Oklahoma, Wetumka—Wetumka Pipe and Supply Co., capital \$10,000, incorporated; C. W. Harbison, A. Irving Sheets, both Okmulgee.

Texas, Fort Worth—Rex Petroleum Co., capital \$10,000, incorporated; J. J. Bisett, 2301 Mistletoe St., Wm. K. Hughes.

Texas, Fort Worth—Connor-Hyer Production Co., capital \$50,000, incorporated; F. T. Connor, Fred Hyer, 3701 Clark St.

Texas, Marshall—Powell Oil Co., capital \$10,000, incorporated; D. V. Powell, J. E. Harter.

Texas, Thorndale—Bartlett Production Co., capital \$10,000, incorporated; J. R. Ellison, M. S. Bartlett.

Texas, Victoria—City postponed election on gas franchise. Address The Mayor.*

Va., Newport News—Matthews Oil Co., Inc., chartered; R. R. Hoskins, Pres.; A. A. Meyer, Sec., 339 49th St.

W. Va., Charleston—Dego Oil and Gas Co., capital \$13,000, incorporated; George H. Ewald, 1603 Franklin Ave.; Fred W. Goshorn.

W. Va., Charleston—Circle Oil and Gas Co., capital \$50,000, incorporated; T. S. Clark, 1708 Kansas St.; S. B. Chilton.

W. Va., Fairmont—Red Fox Oil & Gas Co., incorporated; M. A. Poliff, C. A. Snyder.

W. Va., Hamlin—Union Oil and Gas Co., capital \$50,000, incorporated; J. S. Prudmore, E. J. Elkins.

W. Va., Huntington—See Land Development.

Ice and Cold-Storage Plants

Ala., Gadsden—Pure Process Ice Co., E. L. Gadsden, Pres. Installing following equipment in old building, motors, compressors and storage rooms, daily output 24 tons; machinery furnished by York Manufacturing Co., York, Pa.; Fairbanks-Morse Co., New Orleans, La.; Armstrong Cork & Linoleum Co., Atlanta, Ga.

Ala., Gadsden—Pure Process Ice Co., incorporated; A. F. Norton, C. L. Goodhue.

Ala., Ozark—Ozark Ice & Storage Co., incorporated; C. L. Guice, Ear R. Price.

Ala., Selma—Lackeos Brothers have acquired building on Water Ave.; will remodel, install cold storage plant, etc.

Miss., Columbia—The Polar Ice Co., incorporated; E. C. Tonsmeier, Lee Elder, of Biloxi.

Miss., Columbia—Columbia Ice & Power Co., F. F. Rankin, contemplates reorganization; install refrigeration plant for storage of vegetables, etc.

Mo., Weston—Weston-Platte-City Ice & Storage Co., capital \$17,000, incorporated; Jasper Bradbury, Platte City; L. B. Benner.

S. C., Johnston—See Electric Light and Power Plants.

Tenn., Chattanooga—Refrigeration & Supply Co., capital \$10,000, incorporated; R. M. McConnell, W. C. Anderson, 608 Normal Ave.

Tex., Burnet—The Burnet Ice Cream & Produce Co. will establish cold-storage plant.

Tex., Greenville—Pure Ice & Cold Storage Co., capital \$40,000, incorporated; L. K. Wise, R. B. Noble.

Tex., Humble—Humble Power & Ice Co.,

capital \$50,000, incorporated; C. A. Leavens, Roland Peters.

Tex., Lubbock—The Peoples Ice Co., capital \$20,000, incorporated; G. T. Scales, A. F. Holt.

Tex., Rockport—L. F. Bailey, Mgr., Rockport Electric Light Plant, will erect ice-manufacturing plant.

W. Va., Martinsburg—Rothwell-Gatrell will contract to Quigley-Hafer Co. of Chambersburg, Pa., at \$40,000, for cold-storage plant.*

Iron and Steel Plants

Ala., Fairfield—Geo. W. Crawford, Pres. Tennessee Coal, Iron & Railroad Co., Brown-Marx Bldg., Birmingham, reported, plans immediate expenditure of approximately \$1,000,000 in doubling sheet mill, purchase of material has been made and construction to begin soon.*

Mo., North Kansas City—The Deckard Steel & Iron Co. of Pittsburgh, Pa., reported, contemplates establishing plant to manufacture various types of industrial cars; has acquired 2½-acre site.

Land Development

Ala., Birmingham—E. R. McDavid, Jr., Inc., 108 N. 21st St., chartered; E. R. McDavid, Jr., F. H. McDavid.

Ala., Birmingham—Atlantic Land Co., incorporated; C. F. Manley, 1111 N. 31st St.; J. T. Doster.

Ala., Birmingham—City, Wm. L. Harrison, Commr. interested in development of municipal golf course and playground with swimming pool.

Ala., Birmingham—Syx & Moxley, 5110 Gary Ave., have plans for development of subdivision on Forty-third St., Wylam; install sidewalks, curbing, street improvements.

Ala., Huntsville—Country Club Heights, Inc., capital \$40,000, incorporated; W. P. Dilworth, Pres.; develop country club and golf course.

Ala., Huntsville—West Huntsville Land Co., capital \$50,000, incorporated; R. E. Smith, T. W. Pratt.

Ala., Phenix City—Roy Martin, 607 20th St., Columbus, Ga., acquired and will develop tract for residential and industrial sites.

Ark., Hot Springs—Hot Springs Golf and Country Club construct additional 9-hole golf course.

Fla., Boca Raton—Addison Mizner, St. Petersburg, and other capitalists have acquired 16,000 acres of land with 2 miles of ocean front and will develop subdivision, golf course and polo field.

Fla., Bushnell—Florida Sunland Estates, Inc., Arcade Bldg., Lakeland, Charles A. Parker, Jr., Pres.; B. W. Flood, V. P.; is developing 640 acres for subdivision; will install water, sewers, electric lights, roads, playgrounds; ornamental parkways with native stone pillars; 1 mile white way.

Fla., Dania—M. D. Quinn Realty Co., capital \$20,000, incorporated; Nate D. Quinn, Pres.; Arthur C. O'Hea, Sec.

Fla., Daytona—Daytona Highlands Co., 214 S. Beach St., will develop 18-hole golf course.

Fla., Dade City—George Weems and C. L. Williams acquired tract of 420 acres; develop sub-division.

Fla., Dade City—Grover C. Orr, Dade City; J. R. Pennington, Pennington Gap, Va., acquired 27 acres; develop sub-division.

Fla., Dade City—G. C. Hancock, Clearwater, representing Northern capitalists, acquired tract of land; develop sub-division.

Fla., Dunedin—See Water Works.

Fla., Fort Lauderdale—Fort Lauderdale Riparian Co. is developing 43 acre subdivision on Las Olas Blvd.; construct series of canals.

Fla., Fort Lauderdale—Wildot Realty Corp., incorporated; Wm. J. Fisher, Pres.; T. B. Chambliss, Sec.

Fla., Fort Lauderdale—Alan-Sherwin Realty Co., capital \$10,000, incorporated; Clifford Holian, Pres.; Joseph G. Morton, Sec.

Fla., Fort Lauderdale—Pine Grove Manor Development Co., capital \$25,000, incorporated; J. C. McIntosh, Pres.; Mary P. McIntosh, Sec.

Fla., Fort Meade—Roger W. Babson, Wellesley Hills, Mass., and associates reported acquired 6272 acres of land.

Fla., Fort Myers—Clarence Brown, Chicago, Ill., acquired 229 acres of land; will develop, construct golf course.

Fla., Fort Myers—H. P. Banks, Vicksburg, Miss., acquired tract of land and will develop subdivision.

Fla., Fort Pierce—Ocean-to-River Development Corp., organized by John Prindle, Fort Pierce, and others, acquired 215 acres of land; will develop sub-division, install hard-surfaced streets, sidewalks, water, sewers, lights.

Fla., Fort Pierce—New South Development Co., Cocoa, will develop 70 acres in grove.

Fla., Fort Pierce—Koblegard Realty Co., R. M. Koblegard, Sr., Pres., is developing Pinewood subdivision, 166 acres; install city sewer, electric lights, water works and roads and streets; Haggert Construction Co., Contrs.; J. M. Sherwood, Archt.; Robb and Buchanan, Constr. Engrs.*

Fla., Gainesville—Golf View Realty Co., Inc., A. M. Glass, Sec., will develop 32 acres for homesites; construct asphalt or macadam paved streets with curbs and gutters, install electric lights and white way, water, parks; cost \$50,000; Florida Engineering Co., Archt., Tampa; Herbert & Lee, Contr., Gainesville.*

Fla., Haines City—Kernel Hughes reported acquired Bonner and Mattson Islands; develop subdivision; install water, sewers, electric lights; roads; expend \$500,000.

Fla., Homestead—Walker-Smith Realty Co., capital \$25,000, incorporated; A. R. Walker, Pres.; J. W. Walker, Sec.

Fla., Interlachen—Interlachen Development Co., capital \$100,000, incorporated; Frank S. Rock, Pres.; will develop 320 acres for winter homes, install electric lights, water works, streets and sidewalks; expend \$30,000.*

Fla., Jacksonville—Merchants Realty Co., capital \$100,000, incorporated; Wm. Balder, Pres.; George Wattley, Sec.

Fla., Jacksonville—Coastal Realty Co., capital \$25,000, incorporated; W. H. Gillespie, Pres., 1902 11th Ave., N.; L. R. Johnson, Sec.

Fla., Jacksonville—Sun City Holding Co., capital \$10,000, incorporated; Wm. Lorimer, Pres., 112 Lomax St.; E. E. Haxard, Sec.

Fla., Jacksonville—Greater Florida Realty Co. acquired 37½ acres on Atlantic Blvd. with 1000 ft. waterfront.

Fla., Jacksonville—Saltaire, Inc., chartered by G. C. Blower, New York; Charlmers D. Horne, 528 Laura St.; H. S. Fairchild, both Jacksonville; have acquired 235 acres on both sides of Atlantic Blvd. and will develop \$2,000,000 subdivision; construct lake, highway, sidewalks, streets, electric lights, sewers, water.

Fla., Key West—Meacham Corporation, Malcolm Meacham, Pres., West Palm Beach, reported acquired 1000 acres with 8 miles ocean and bay frontage; will develop subdivision.

Fla., Lynn Haven—Riggs Miller has contract for golf course.

Fla., Melbourne—Payne-Brown Co., developers of Hiawatha Gardens, have acquired additional 8 acres for development.

Fla., Miami—Jennings Realty Co., E. R. Tuttle, Sec., 36 E. Flagler St., has 440 acres; will develop 27 acres for sub-division.*

Fla., Miami—Garrett Holding Co., incorporated; James C. Caffrey, Pres.; D. L. Ryan, Sec., 309 N. E. 35th St.

Fla., Miami—Bidholen Holding Co., capital \$10,000, incorporated; E. L. Semple, 853 S. W. 13th St., Pres.; Gladys Dravo, Sec.

Fla., Miami—Efficient Realty Co., capital \$100,000, incorporated; Geo. K. Bassot, Pres.; D. D. Davis, Sec., 3719 N. W. 3rd Ave.

Fla., Miami—Tower Realty and Investment Co., capital \$500,000, incorporated; A. L. Snell, Pres.; John E. Killman, Sec.

Fla., Miami—Lint and Butscher Realty Assn., capital \$50,000, incorporated; Wm. Butscher, Pres.; Charlotte E. Butscher, Sec.

Fla., Miami—Bowmar Realty & Investment Co., capital \$10,000, incorporated; Bert Renge, Pres.; W. O. Marshburn, Sec.

Fla., Miami—Interstate Realty Associates, capital \$10,000, incorporated; John L. Rossel, Pres.; Louis J. Hamel, Sec., 506 First National Bank Bldg.

Fla., Miami—Tamiami Everglades Assn., capital \$100,000, incorporated; N. B. Dixon, Marvin Capin.

Fla., Miami Beach—Miami Beach Real Estate & Construction Co., capital \$25,000, incorporated; Howard W. Lyon, Pres.; N. B. Dixon, Sec.

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CONSTRUCTION DEPARTMENT

Fla., Miami—Distinctive Homes Co., capital \$50,000, incorporated; W. Earle Otis, Pres.; Frank C. Anderson, Sec., 209 N. E. 7th St.

Fla., Miami—Miami Memorial Assn., Commercial Arcade, Walter E. Williams, Pres., is developing Miami Memorial Park Cemetery; construct 35-ft. drives; install individual water system complete with engine, pumps, tanks and an underground distributing system.

Fla., Miami—Detroit Realty Corp., capital \$25,000, incorporated; Arthur Rosenthal, Pres.; Samuel Feldman, Sec.

Fla., Miami—J. C. H. Realty Corp., capital \$60,000, incorporated; C. S. Johnson, Pres.; Watson Corine, Sec.

Fla., Miami—Merrick Realty & Building Co., capital \$20,000, incorporated; Howard L. Merrick, Pres.; Louis B. Merrick, Sec.

Fla., Miami Beach—Flagler Land Co., Joseph Eisener, Agt., acquired tract of land; will develop for housing center.

Fla., Miami—Haben Co., Inc., capital \$40,000, incorporated; Harry L. Baker, Pres.; R. R. Rundell, Sec., 192 N. W. 34th St.

Fla., Miami—Universal Land Co., capital \$25,000, incorporated; George D. Bailey, Pres.; Orlie E. Tussing, Sec., 21st Rd., Holloman Park.

Fla., Miami—Victoria Properties, Inc., capital \$10,000, incorporated; H. L. Town, Pres.; A. C. Smith, Sec., Little River.

Fla., Miami—Security Realty Co., capital \$10,000, incorporated; Joseph De Voney, Pres.; Ralph B. Moehr, Sec.

Fla., Miami—Empire Holding Co., incorporated; M. C. Landis, Pres.; E. F. Killin, Sec., Coconut Grove.

Fla., Milton—Apex Realty Co., J. Claude Smith, Pres., Birmingham, Ala., reported to construct townsite of about 15,000 acres.

Fla., Ocala—Ocala Development Co., incorporated; W. C. Gilman, Pres.; E. H. Martin, Sec.

Fla., Ocala—F. H. McCurdy, V. P. Florida Orange Grove Corp., develop subdivision on Silver Springs Road; install water, sewer, roads, electric lights, golf course, clubhouse.

Fla., Ocala—Central Florida Realty Co., incorporated; Stephen F. McCready, Pres.; E. H. Martin, Sec.

Fla., Orlando—Moreaux Holding Co., incorporated; A. T. Moreaux, Pres.; W. D. McCurdy, Sec., New St.

Fla., Orlando—Hibbard W. Hall Development Co., capital \$100,000, incorporated; Leslie L. Boyd, Pres.; Hibbard W. Hall, Sec.

Fla., Orlando—Chewning-Key Realty Co., C. W. Chewning, Pres., will develop 70 acres of land on Lake Virginia and Lake Sue; expend \$500,000 in installation of water works, sewers, electric lights, sidewalks, brick streets and blvds.

Fla., Palm Beach—Palm Beach Banana Plantations, 323 S. Poinsettia St., Radcliff & Mitchell, Inc., Sales Agt., is developing banana grove; divided into 5 acre tracts; install drainage system, rock roads.

Fla., Palm Beach—Gomez Co., incorporated; George M. Osborne, Pres.; Jerome E. Wideman, Sec.

Fla., Panama City—Herman A. Dana, St. Petersburg, acquired 8000 acres of cut-over lands.

Fla., Palm Beach—M. E. Gruber, West Palm Beach, acquired tract of land with 2 miles ocean frontage; will subdivide.

Fla., Palatka—Edgewater Realty Co., capital \$50,000, incorporated; Thurston Roberts, Pres.; F. C. Cochrane, Sec.

Fla., Panama City—Bayside Realty Co., capital \$100,000, incorporated; C. S. Russ, Pres.; M. A. Coleman, Sec.

Fla., Panama City—Bay-Co. Development Co., capital \$25,000, incorporated; M. A. Coleman, Pres.; Lewellyn Coleman, Sec.

Fla., Pensacola—George Dellman acquired through McMillan Mill Co. tract of 24,000 acres; develop for colonization.

Fla., Sarasota—Frank J. Roth, Chicago, Ill., acquired 3 acres of land; will develop.

Fla., Sarasota—Col. Jacob Ruppert, 1116 5th Ave., New York; Major A. White, Sarasota, acquired 173 acres of land on Longboat Key and will develop for sub-division.

Fla., Sanford—Bradford W. White, 523 Margaret St., Orlando, acquired 62-acre tract; develop subdivision, install water, sewers, electric lights.

Fla., Sarasota—Brown & Crist, Inc., capital \$10,000, incorporated; G. W. Crist, Jr., Pres. Sec.

Fla., Sebring—See Water Works.

Fla., St. Augustine—J. N. Bradshaw, 17

S. Orange Ave., Orlando, interested in development of 800 acres for subdivision.

Fla., St. Petersburg—C. Perry Snell, 124th St., reported planning \$4,500,000 development north of Coffee Pot Bayou; protected by seawall; hard surfacing of streets; sanitary sewer system; 100 ft. blvds.; water and gas systems; underground system of electric and telephone; whiteway street lighting system; 18-hole golf course; system of parks; bridges; yacht basins; channel; erect hotel, apartment houses, etc. wire from C. Perry Snell states: "Hotel in line of development, no details, engineer engaged; most machinery purchased; R. Paine, formerly of Ontario Power Co., Niagara Falls, in charge of all development work."

Fla., St. Petersburg—F. M. Realty Co., capital \$30,000, incorporated; Arthur K. Barnauer, Pres.; Mary McDonough, Sec.

Fla., St. Petersburg—Arthur Dumas, Pres. Stanley Realty and Development Co., let contract for hard surfaced streets, sidewalks and ornamental archways for Arcadia Villa and Arcadia Gardens subdivision.

Fla., St. Petersburg—W. H. Schooley Interests, 449 Central Ave., acquired 140 acres on Anna Maria; will develop; Geo. P. Young, Landscape Archt.

Fla., St. Petersburg—Dixie Holding Co., capital \$50,000, incorporated; Jesse T. Davis, Wm. A. Reynard, 11 4th St. N.

Fla., Tampa—Byars Realty Co., capital \$10,000, incorporated; Geo. H. Byars, Pres.; Geo. H. Byars, Jr., Sec.

Fla., Tampa—See Water Works.

Fla., Tampa—M. E. Lightfoot, 201 W. Pine St., Orlando, reported to have acquired 8500 acres in Hardee County; develop subdivision.

Fla., Tampa—Florida Tampa Realty Co., capital \$25,000, incorporated; H. E. Dickins, Pres.; Lipscomb and Chapin Sts.; A. M. Dickins, Sec.

Fla., Tampa—Estuary Development Co., incorporated; C. L. Knight, Pres., Citrus Exchange Bldg.; J. W. Dupree, Sec.

Fla., Tampa—J. C. Lamb, W. Z. Turner, both Atlanta, Ga., acquired 100 acres in Interbay Peninsula.

Fla., Titusville—Indian Hills Golf Estates, Calvin W. Black, Sec., will develop 550 acres of land for homesites and 2 golf links; construct roads, install water, electric lights, sewers; W. D. Clark, 4230 W. Ban B St., Chicago, Ill., Golf Archt. for first golf course.*

Fla., West Palm Beach—The McCampbell Co., Inc., capital \$10,000, chartered; A. J. McCampbell, Pres.; P. B. Jeffries, Sec.

Fla., West Palm Beach—Tropical Groves Co., capital \$100,000, incorporated; Edw. U. Roddy, Pres.; Jules M. Burguiere, Sec.

Fla., West Palm Beach—Strong Holding Co., capital \$50,000, incorporated; M. Morgenthaler, Jr., Pres.; Edgar P. Ettenheim, Sec.

Fla., West Palm Beach—V. Mason Weil, Palm Beach, and associates plan development of 970 acres of land.

Fla., West Palm Beach—Carmac Investors, Inc., capital \$25,000, incorporated; Theodore Eefting, Pres.; H. E. Bartholomew, Sec.

Fla., West Palm Beach—Capt. J. J. O'Brien acquired tract of land; develop subdivision; construct streets.

Fla., West Palm Beach—Stypmann Park, Inc., capital \$100,000, incorporated; Clara A. Stypmann, Pres.; Charles Stypmann, Sec.

Fla., West Palm Beach—Florida Beaches Realty Co., capital \$10,000, incorporated; G. Merrill, Pres.; C. A. Cronk, Sec.

Fla., Winter Haven—The Hesperides Co., Box 577, incorporated; Irving Bacheller, Pres.; S. B. McCormick, Sec.

Fla., Winter Haven—Taylor-Alexander Co., Inc., James Alexander, Sec., will develop 13,500 acres in Peach Valley, for banana plantations in units of 5 acres each; install complete system of drainage ditches; system of roads throughout plantation, 10 to 30 ft. wide; erect office building, garages, packing and coloring rooms; Otis A. Herden, Drainage Contr., Sebring.*

Ga., Athens—Georgia Realty Co., capital \$300,000, incorporated; M. G. Nickolson, 298 Hull St.; Howell C. Erwin.

Ga., Athens—Benson-Williams, Inc., capital \$62,000, incorporated; W. H. Benson, 853 Prince Ave.; F. H. Williams.

Ga., Brunswick—George Dewett Myers, Washington, D. C., acquired 6500 acres of land.

Ga., Thomasville—J. B. Jemison has acquired 40 acres of land and will develop subdivision; install water, sewers, electric lights, curbs, sidewalks.

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Manufacturers Record

Ga., Valdosta—C. J. Martin, Miami, Fla., will develop 30 acres for subdivision.

La., Baton Rouge—Delta Land Owners' Development Co., Inc., chartered; Edward R. Conklin, B. E. Harris.

La., New Orleans—Shore Realty Co., capital \$50,000, incorporated; Meyer Elsemann, Pres.; E. Lysle Aschaffenburg, Sec., Octavia Apartments.

Md., Baltimore—Beldon Realty Co., 301 Katz Bldg., capital \$20,000, incorporated; Denton B. Albridge, Alvin R. Whiting.

Md., Baltimore—B. F. Schlesinger & Sons, Inc., Calvert Bldg., incorporated; E. Harry Frost, Douglas H. Rose.

Md., Baltimore (Raspeburg Station)—Library Realty Co., capital \$10,000, incorporated; Casper H. Sippel, Joseph Berger.

Md., Baltimore—Homebuilders Service Co., 2044 Wilkins Ave., capital \$25,000, incorporated; Aaron Borden, Abram Sear.

Md., Baltimore—McHenry, Ltd., Inc., 443 Calvert Bldg., incorporated; Selma Phillips, Meyer M. Austin.

Md., Catonsville—Syndicate has purchased through J. Kearsley Kearney & Co., 337 St. Paul Place, 50 acres for home development; will construct roads and streets, install water, sewer and electric lights.

Md., Cumberland—Boyd A. Reinhart Co., Inc., McCleavey Bldg., capital \$25,000; incorporated; Boyd A. Reinhart, Pres.; Eugene F. Bareis, Sec.

Miss., Natchez—City contemplates improvements to Duncan Park, including circular driveway, ornamental entrance, baseball grandstand, swimming and wading pool, tennis courts. Address The Mayor.

Mo., Centralia—City contemplates improvements to City Park, including swimming pool, athletic field; Benham Engineering Co. Consult. Engrs., 512 Gumble Bldg., Kansas City.

Mo., Joplin—Elk-O-Zar Improvement Co., capital \$25,000, incorporated; W. W. Perry, 123 Miners Bank Bldg.; Charles Dacy.

Mo., Kansas City—McTernan-Haner Co., incorporated; Hugh P. McTernan, Archie E. Haner, 1702 E. 35th St.

Mo., St. Louis—Southern Realty Co., incorporated; John F. Queeny, 3453 Hawthorne Pl.; Theodore Rassieur, Federal Reserve Bank Bldg.

Mo., St. Louis—Bromschwig Investment Co., capital \$50,000, incorporated; Joseph A. Bromschwig, 2725-A Eads St.; Helen H. Mueller.

Mo., St. Louis—Palomine Realty Co., incorporated; Cyrus Crane Willmore, Boatman Bank Bldg.; George M. Rassieur, 1406 Federal Reserve Bank Bldg.

Mo., St. Louis—Women's Building Co., incorporated; Myrtle B. Wood, Wainwright Bldg.; A. B. Price.

Mo., St. Louis—Wm. Remmert Construction Co., Country Club, will develop 15 acre subdivision.

N. C., Arden—Wm. I. Phillips Co., capital \$250,000, incorporated; Wm. I. Phillips, 28 N. Bay Shore Drive, Charles Emerson, both Miami, Fla.

N. C., Asheville—Floyd Byram will develop subdivision; install water, sewers, electric lights and roads.

N. C., Asheville—Wm. I. Phillips, 18 Patton Ave., is developing Royal Pines, subdivision on Henderson Rd.; let contract for miles of graded and paved streets, cement walks, clearing of land, installation of white way on Blake Drive and Dixie Highway; construct underground street lighting system; water supply.

N. C., Charlotte—Southern Land Co. acquires 15 acres of land; develop subdivision.

N. C., Charlotte—J. C. Hurley, Troy, acquires 45 acres; will organize company and develop.

N. C., Charlotte—Parkview Realty Co., Reality Bldg.; C. D. Taliaferro.

N. C., Charlotte—Walkerhill Development Co., 223 Piedmont Bldg., capital \$40,000, incorporated; W. J. Craig, J. M. Walker.

Okla., Tulsa—Knight Realty Co., capital \$25,000, incorporated; R. R. Parks, Valjean Biddison, 1215 N. Cheyenne St.

S. C., Charleston—L. L. King, 337 King St., acquired 10 acres; will develop.

Tenn., Chattanooga—John Lovell interested in development of golf course.

Tenn., Chattanooga—W. E. Wilkerson of Missionary Ridge acquired and will develop 15 acres on Mount Crest Rd.

Tex., Austin—H. J. Cohn Realty Co., capi-

tal \$15,000, incorporated; H. J. Cohn, H. L. Mauzy.

Tex., Belton—Dr. A. G. Gebhard, Waco, acquired 452 acres land along Leon River; develop for pecan grove.

Tex., Dallas—Bonnie View Realty Co., capital \$30,000, incorporated; Dudley B. Mayer, Magnolia Bldg.; James B. Cheek.

Tex., Houston—Gulf Coast Land & Oil Co., capital \$10,000, incorporated; S. L. Hurlbut, 714 Francis St., Gladys G. Lawrence.

Tex., Kerrville—J. L. Pampell acquired 150 acres and will develop for subdivision; in areas water, sewers, roads and streets.

Tex., Longview—Highway Lake Co., capital \$15,000, incorporated; F. H. Bivins, N. B. Green.

Va., Danville—Home Co., Inc., chartered; E. H. Lane, Pres., Altavista; C. Haskins, Sec.

W. Va., Charleston—Boyd A. Reinhart Co., Inc., capital \$25,000, incorporated; Boyd A. Reinhart, Pres.; Eugene F. Barries, Sec.

W. Va., Charleston—Vickers Realty Co., incorporated; J. H. Vickers, Snow Hill, W. Va.; R. C. Teter.

W. Va., Huntington—Huntington Tourist Site Co., capital \$10,000, incorporated; Carl Varnum, Hans Watts, Park Hill.

W. Va., Huntington—Herbert M. Smith, Sec., Huntington Automobile Club, and associates interested in development of 6½ acre site at Nineteenth St. and Washington Ave. for tourist camp; install gas, electricity, water, showers.

W. Va., Huntington—Campbell Park Land Co. increased capital, \$65,000 to \$100,000. \$100,000.

Lumber Enterprises

Ala., Montgomery—The Grady Lumber Co. reported have acquired timber holdings in both Montgomery and Pike Counties; plans not made for development.*

Fla., Bradenton—The Manatee River Lumber Co., capital \$50,000, incorporated; E. W. Stoltz, Pres.; P. J. Hackney, Sec.

Fla., Fort Pierce—The East Coast Lumber & Supply Co., W. E. Tylander, Gen. Mgr., will erect plant building on Avenue A.

Fla., Haines City—The Guldlege Lumber Co. of Mendenhall, Mass., reported to have purchased sawmill plant and timber holdings of J. C. Prine, includes about 21,000 acres timber land; will develop.

Fla., Miami—Drake Lumber Co., N. W. Miami Ave. let contract to the St. Johns Construction Co. for \$40,000 lumber shed.

Fla., West Palm Beach—Logan-Moore Lumber Co., G. M. Moore, V. P., 51st and Summit St., Kansas City, Mo., has acquired plant of the Belvedere Lumber Co.; will operate.

Ga., Brunswick—Savannah River Lumber Co. of Savannah, Ga., has leased the Brookman tract; will erect additional saw mills, dry kilns, etc.; largest mill to be erected at Hayner contemplates cutting between 7,000,000 and 10,000,000 ft. lumber.

Ky., Ashland—The J. A. Meridith Lumber Co., capital \$100,000, incorporated; A. Lulu Meridith, Pres.-Gen. Mgr.; Maude M. Fisher, Sec.; Eli Williams, Asst. Mgr.

Ky., Louisville—Bond Brothers, Met. Bldg., increased capital, \$600,000 to \$1,000,000.

Ky., Viper—The Louisville Cooperage Co., Louisville, has acquired timber lands on Maces Creek; will develop, install two mills.

La., Bogalusa—Victor M. Scanlan and John P. Semmes of Hattiesburg, Miss., reported have acquired several thousand acres land containing hardwood timber, will develop; Scanlan and Semmes advise: "We have no definite plans whatsoever with respect to the timber recently bought by us."

La., Lake Providence—Mark H. Brown Lumber Co., Memphis, Tenn., reported have purchased the Desha Lumber Co. property, including band mill, resaw and 70,000,000 ft. stumps; will develop.

La., New Orleans—Port Allen Lumber Co., Inc., capital \$10,000, chartered; R. H. Fleming, Pres., 415 Whitney Bldg.; C. F. Holek, Sec., Port Allen.

Miss., Bay St. Louis—J. H. Weston Timber Co., capital \$25,000, incorporated; J. H. Weston, Lee Seal.

Miss., Laurel—The Jones County Hardwood Co., C. K. Wells, Pres., Birmingham, Ala., reported to have purchased holdings of the Long Branch Lumber Co. in Jones County.*

Miss., Winona—Montgomery Lumber Co., incorporated; B. L. Harris, Winona, T. B. Grantham.

Mo., Kansas City—The Missouri Hardwood & Lumber Co., organized; A. O. Thompson, Pres., 18th and Swift St.; H. M. Hayward, Sec.-Treas.; has acquired yard of the Connally Hardwood Lumber Co. at Eighteenth St. and Indiana Ave.

Mo., St. Louis—Keystone Hardwood Lumber Co., incorporated; J. A. Hafner, Jr., I. L. Smith.

N. C., Charlotte—J. H. Wearne & Co., 320 E. Trade St., will expend \$75,000 on following buildings: 3-story warehouse on E. 4th St., mill construction with sprinkler system, containing 36,000 sq. ft. floor space; office building at Brevard and 4th Sts., 1-story, 40x60 ft., brick; 1-story, 60x150 ft. brick building on Brevard St. for storage of dressed and shop lumber; plans by C. C. Hook, Charlotte.

N. C., Columbus—Citizens Planing Mill Co., capital \$400,000; J. W. Black, H. H. Carson.

N. C., Farmville—Baker-Mason Lumber Co., capital \$100,000, incorporated; J. O. Baker, Farmville; W. H. Mason, Chapel Hill.

S. C., Columbia—Lee Clark Lumber Co., incorporated; Lee Clark, Pres.; Benton A. Clark, Sec.

Texas—Gibbons Manufacturing Co., Clarksville, Tex., have acquired 4600 acres timber land in Smith County; will develop.

Tex., Houston—W. H. Norris Lumber Co., National Bank Bldg., increased capital, \$300,000 to \$800,000.

Metal-Working Plants

Tenn., Nashville—Foskett Brown Manufacturing Co., capital \$100,000, incorporated; Chas. C. Trabue, Harding Rd.; Chas. S. Brown; manufacture metal products.

Mining

Fla., Lake Wales—Diamond Sand Co., organized; C. G. Memminger, Pres.; will install following equipment at Diamond, Fla.: Hydraulic pumping equipment and sand washing plant; daily output 40 to 50 cars of Class A concrete sand (double washed); machinery furnished by Georgia Iron Works, Augusta, Ga.; Allis-Chalmers Manufacturing Co., Milwaukee, Wis.; Link Belt Co., Philadelphia, Pa.; Sturtevant Mill Co., Boston, Mass.; General Electric Co., Schenectady, N. Y., and Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.*

Mo., Joplin—Billy-B, Inc., capital \$30,000, chartered; L. C. Hermann, O. W. Bilharz, Baxter Springs, Kan.

Okla., Picher—The Cortez-King Mines Corp., chartered; D. M. Oberman, Pres., Jefferson City, Mo.; H. B. Church, Sec.; organized to take over properties of the New York, the Cortez and the King Brand mining companies; also increased capital to \$1,000,000 to finance new proposition.

Tennessee—Annette Mines Co., capital \$200,000, incorporated; Fred. B. Frazier, Vol. Life Bldg., Chattanooga; J. L. Akers, Nashville; has 560 acres land on Coker Creek, capital \$100,000, incorporated; B. Rush Lee, Monroe County; establish \$45,000 plant for gold mining.

Tex., Alpine—The Marble Mountain Co., capital \$200,000, incorporated; H. V. Holland, Pres.; J. W. Westbrook, Sec., Los Angeles; S. A. Arett, local Mgr.; organized to develop Brewster County Marble Mountain.

Miscellaneous Construction

Fla., Bradenton—Seawall—George Skene of Palmetto has contract for seawall along the Manatee River from mouth of Wares Creek west to Sarasota Ave., reinforced concrete, 7 ft. high; estimated cost \$75,000; Kirby & Wells, Civil Engrs.

Fla., Fort Lauderdale—See Land Development.

Fla., Miami—Mausoleum, etc.—Miami Memorial Assn., Commercial Arcade, have tentative plans for memorial archway at entrance to cemetery on Kendal Rd., also build mausoleum, crematory and chapel, capacity 1000 cribs and niches for approximately 1000 urns; buildings designed after the ancient Moorish and Spanish mausoleums.

Fla., Palatka—Incinerator—City contemplates installing garbage incinerator plant, daily capacity 25 tons; Oscar Dobbs, City Mgr.

Fla., St. Petersburg—Channel—See Land Development.

Fla., St. Petersburg—See Land Development.

Fla., St. Petersburg—Seawall—Vinoy Co.

contemplates building seawall about the 1200 ft. fill; Parsons, Klapp, Brinckerhoff & Douglas, Engrs.*

La., Baton Rouge—Wharves, etc.—James W. Billingsley, Consnl. Engr., advises: "We are now making some alterations in plans for docks and wharves at Baton Rouge and will be in position to advertise this work about May 15."*

La., Baton Rouge—Terminals—E. C. Brown, Chief Civil Engr., Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., advises: "Our project for transhipment facilities in the lower Mississippi in neighborhood of Baton Rouge has been indefinitely postponed."*

La., New Orleans—Trans-Mississippi Canal & Terminal Co., Inc., capital \$103,000, chartered; Lester F. Alexander, Pres., 120 Bourbon St.; F. P. Higgins, Sec., 414 Maison Blanche Annex.

La., New Orleans—U. S. Engineer Office, 140 Decatur St., Customhouse, will receive bids April 28 for 937,000 cu. yds. earthwork. (See Machinery Wanted—Dredging.)*

La., Shreveport—Wells—See Miscellaneous Enterprises.

Md., Baltimore—Swimming Pool—Park Board, Wm. I. Norris, Pres., will construct swimming pool at Riverside Park, 180x280-ft., accommodate about 1000 persons; plans by Wm. Courts, Engr. of Board.

Miss., Clarksdale—Swimming Pool—The Delta Council of Boy Scouts of America, incorporated; E. P. Peacock, Pres.; contemplates building swimming pool and bridge at camp.

Mo., Centralia—Swimming Pool—See Land Development.

Mo., North Kansas City—Elevator—Burrell Engineering & Construction Co., Jos. Wilson, Sec., 513 W. Jackson Blvd., Chicago, Ill., advises "We are engineers and contractors for the 1,000,000-bu. capacity concrete grain storage annex to be built at North Kansas City for the Murray Elevator, are handling all work ourselves, necessarily buying what is required in way of all building materials."*

Mo., St. Louis—Natatorium Construction Co., Inc., 50 E. Forty-second St., New York, advises: "Have under construction the installation of one of the largest and certainly the most modern and up-to-date natatoriums in the world; the entire arena is taken up with pool and will be used five months in summer for bathing, and so designed that during the winter months it will be drained and floor used for sports, conventions and different kinds of entertainments."*

Tenn., Johnson City—Monument—H. W. Lyle, Sec., Kiwanis Club, advises: "The plans for the Henry Johnson Memorial not completed; will probably be a monument."

Tenn., Memphis—Terminal—Wheeling Steel Corp., H. K. Moore, Special Agent, Wheeling, W. Va., advises: "It is true we have purchased property in Memphis and may in the future build warehouse and possibly unloading facilities, but at present time nothing has been decided definitely."

Tex., Beaumont—Retaining Wall—Herman Weber, 311 Perlstein Bldg., has contract for retaining wall on wharf units.

Tex., Dallas—Concourse—R. A. Wyllie, Street Commr., will submit proposal to Dallas Union Terminal Co. for erection of an overhead concourse connecting the terminal station with Ferris Plaza to facilitate traffic.

Tex., Fredericksburg—Swimming Pool—City will construct swimming pool; Terrell Bartlett, Engrs., Calcasieu Bldg., San Antonio, Texas.

Tex., Houston—Subways and Incinerator—See Water Works.

Tex., San Antonio—Track, etc.—The International Exposition, W. A. Wurzbach, Pres., Alamo Bank, reported, plans under way for construction of first unit of proposed exposition on East side, including race track, concrete grandstand, with seating capacity for 5000 persons, live stock barns, etc.; total cost of project \$500,000.

Tex., San Angelo—Incinerator—See Water Works.

Virginia—War Dept. appropriated for improvements of Virginia's waterways, recommended by U. S. Engineers, as follows: Patapsco Creek, \$7500; Rappahannock River, Munkey River, \$2550; Occoquan Creek, \$2700; \$8800; Mattaponi River, \$2500; Appomattox River, \$10,000; Pagan River, \$2000; Blackwater River, \$3000; Inland waterway, from Norfolk to Beaufort Inlet, \$447,000; and Potomac River, \$114,500 at Washington and \$1800 at Alexandria.

CONSTRUCTION DEPARTMENT

Va., Portsmouth—Incinerator—See Sewer Construction.
W. Va., Huntington—Flood Wall—See Road and Street Construction.

Miscellaneous Enterprises

Ala., Birmingham—O. L. Bunn, Sec. Chamber of Commerce, interested in establishment of modern system of sightseeing busses.

Ala., Birmingham—E. H. Eshelman of the Eshelman Supply Co., 1531 25th St., contemplated establishing plant for manufacture of recently patented clothes-pressing device.

Ala., Birmingham—Sales Engineering Co., incorporated; Edgar A. Crandall, W. B. Phillips, 506 St. Charles Ave.

Ala., Mobile—City Comsn. let contract to The Gamewell Fire Alarm Telegraph Co., Peters Bldg., Atlanta, Ga., at \$192,125, for fire-alarm system, including installation of central office equipment, engine house apparatus, underground cable, overhead lines, fire-alarm boxes, etc.

Ark., Hot Springs—Patton Brothers received contract for 60x60-ft. addition to the Gross Mortuary at 1017 Central Ave., 2-story, brick and steel; install electric elevator; ground floor used for company's motor equipment.

Ark., Little Rock—Drugs—The DeWoody Manufacturing Co., capital \$100,000, incorporated; T. S. DeWoody, R. W. Etter.

Ark., Little Rock—The Arkansas Safety Coach Co., increased capital, \$25,000 to \$75,000.

D. C., Washington—National Film Corp., capital \$75,000, chartered; James A. Fitzgerald, Thos. E. Lodge, Columbia Bldg.

Fla., Daytona—Florida Confectionery, Inc., F. B. Nordman, Jr., Pres., 9 Ormond Rd., leased building; will install taffy making machinery, candy kettle, dipping tables, etc.; daily output 500 to 1000 lbs. salt water taffy.*

Fla., Fort Lauderdale—Garret-Clark, Inc., capital \$10,000, chartered; K. S. Clark, Pres.; R. J. Prowell, Sec.

Fla., Fort Lauderdale—Clark-Prowel, Inc., capital \$10,000, chartered; K. S. Clark, Pres.; R. J. Prowell, Sec.

Fla., Fort Lauderdale—Broward Laundry, Inc., capital \$50,000, chartered; W. S. Lockman, Jr., Pres.; W. S. Lockman, Sec.

Fla., Hollywood—Southern Mercantile & Supply Co., chartered; J. L. Pelletrean, Pres.; A. S. Hill, Sec.

Fla., Hollywood—Southern Mill & Bungalow Co., incorporated; Lelan Fishback, Pres.; J. W. Young, Sec.

Fla., Hollywood—The Construction Co. of Hollywood, Inc., chartered; J. W. Young, Pres.; F. O. VanDeren, Sec.

Fla., Jacksonville—Grant, Inc., capital \$50,000, chartered; W. H. Hilton, Pres.; H. E. Clas, Sec.

Fla., Kissimmee—C. A. Blair Co., Inc., capital \$1,000,000, chartered; Clyde A. Blair, Pres.; H. F. Blair, Sec.

Fla., Lakewood—The F. W. Birdsong Co., capital \$50,000, incorporated; F. W. Birdsong, Pres.; W. E. Hutschenreuter.

Fla., Miami—The Thomas Awning & Tent Co., E. T. Thomas, Pres., 2634 N. E. 2nd Ave., will erect \$90,000 building on Southwest 2nd Ave., 3-story, plans not completed.

Fla., Miami—Checker Cab Co. of Miami, capital \$10,000, incorporated; E. Kirk Rauch, Lyle Chamberlain.

Fla., Miami—Lime Cola Bottling Co., capital \$40,000, incorporated; E. R. Williams, Pres.; R. H. Holland, Sec.

Fla., Miami—America's Mediterranean, Inc., chartered; James G. Caffrey, Pres.; D. L. Ryan, Sec., 309 N. E. 35th St.

Fla., Miami—J. W. Humphreys, Inc., capital \$10,000, chartered; J. W. Humphreys, Pres., Coral Gables; Ida Fredericks.

Fla., Miami—Hollis Dry Cleaning Co., incorporated; E. L. Hollis, Pres.; L. M. Hollis, Sec.

Fla., Miami—Hurley & Co., capital \$25,000, incorporated; W. H. Hurley, Pres., 105 N. E. 43d St., Prest.; H. M. Sandler, Sec.

Fla., Miami—Miles Standish Hotel Co., capital \$100,000, incorporated; A. F. Cathey, Pres.; R. H. Ford, Sec.

Fla., Miami—Leon E. Howe, Inc., Lorraine Arcade; capital \$100,000, chartered; Leon E. Hall, Pres.; Hazel L. Hall, Sec.

Fla., Miami—Crescent City News, Inc., capital \$10,000, incorporated; Frank Jones, Pres.; Wm. L. Lanier, Sec.

Fla., Miami—The Solar Water Heater Co.,

CONSTRUCTION DEPARTMENT

A. G. Carruthers, Sec., 504 Congress Bldg., has acquired site near 25th St., erect factory, enlarging plant facilities.

Fla., Miami—Miami Mattress Co., R. M. Wells, Props., have tentative plans for erection of additional warehouse at 31 N. W. 13th St.

Fla., New Smyrna—City Comsn. will purchase additional fire fighting equipment.

Fla., Orlando—Moreaux Publishing Co., capital \$150,000, incorporated; A. T. Moreaux, Pres.; W. D. McCurdy, Sec., New St.

Fla., Palm Beach—T. B. C. R. Co., Inc., capital \$100,000, chartered; J. J. O'Brien, Pres.; Beatrice Breese, Sec.

Fla., St. Petersburg—C. W. Hewitt, Inc., capital \$50,000, chartered; C. H. Hewitt, Pres.; L. A. Beers, Sec.

Fla., St. Petersburg—Louis Raquet, Inc., capital \$50,000, chartered; Louis Raquet, Pres., 531 1st Ave. N.; Mabel Raquet, Sec.

Fla., St. Petersburg—The Hartman Amusement Co. let contract to A. R. Ulrich Co. of New York and St. Petersburg, for construction of \$200,000 building, corner 2nd St. and 2nd Ave., 3-story, steel frame work and hollow tile and stucco; structure will contain dance hall, cabaret, roof garden, etc.*

Fla., Tampa—Straiton Hard Co., capital \$50,000, incorporated; Straiton Hard, Pres.; Donald McIver, Sec.

Fla., Tampa—Contracting—Gass Street Leasing Co., capital \$100,000, incorporated; A. G. Smith, Pres.; C. H. Constans, Sec.

Fla., West Palm Beach—J. H. Follett, Inc., capital \$25,000, chartered; J. H. Follett, Pres.; Estelle B. Follett, Treas.

Ga., Atlanta—Augustus Lukeman, Sculptor, New York, engaged as successor to Gutzon Borglum for the Stone Mountain Confederate Memorial.

Ga., Columbus—Columbus Dairy Co., capital \$15,000, incorporated; R. L. Cooper, Ernest Denk.

Ga., Rome—Romanco Construction Co. let contract to J. F. Dupre & Sons at \$57,200 for 3-story, brick and steel building, corner Second Ave. and E. Third St., 110x100-ft.; Crawford & Slaton of Atlanta will install heating; Sanitary Plumbing Co. of Atlanta for plumbing; building to be occupied by Rome Manufacturing Co. and the Elk Manufacturing & Commission Co.

Ga., Savannah—Olaf Otto, Engr., Arcade Bldg., has contract for 4-story building on Bay St. for the Morning News; granite terra cotta in gray granite finish, steel inside doors, steel partitions, steel window coverings, basement and frame of reinforced concrete, with 12-in. floors, 16-in. walls, roof of 6-in. concrete slab; construction suitable for installation of heavy printing machinery; new structure will connect with present building on Whitaker St.; copper and glass marqueses will cover entrance; install sextuple unit type Hoe press; estimated cost \$250,000; construction begun.

La., Abita Springs—The Abita Springs Water Co., Inc., capital \$150,000, chartered; J. L. Bryan, Pres.; W. E. Brock, Sec.

La., Marksville—The Inn Pharmacy, Inc., A. V. Gremillion, Sec., Main St., will erect 2-story, 56x92-ft. building, brick, wood floors, metal roof, install equipment.*

La., New Orleans—The Paris Shops, Inc., chartered; Marguette Woodman, Pres., 123 Union St.; Felicia Maurri, Treas., 1905 Ursuline Ave.; manufacture wearing apparel.

La., New Orleans—Coast Leasing Co., Inc., capital \$10,000, chartered; Meyer Eiseman, Pres., 819 Union St.; E. L. Schaffenburg, Sec.

La., New Orleans—Standard Trading Co., incorporated; Wm. H. Kerr, Pres.; Martin C. Carter, Sec., 2439 Napoleon St.

La., Plaquemine—The Callais Rainbow Push Broom Co., Inc., Albert A. Callais, Sec., will erect 50x150-ft. frame building; completed within ninety days; manufacture brushes and push brooms, daily output 50 doz.; equipment furnished by Woodward-Wight Co., Inc., 451 Howard Ave., New Orleans, La.*

La., Shreveport—A. C. Waterman let contract to G. H. Butler, 231 Herndon Ave., to drill one salt and one fresh water well to supply swimming pool now under construction for amusement park; will also build lockers, bath houses, lunch stands, etc.

Md., Baltimore—The Gonnen Construction Co., 20 E. Lexington St., incorporated; Carl Gonnen, Porter T. Bond.

Md., Baltimore—The Calvert Shirt Co., 410 W. Lombard St., incorporated; Samuel Rashbaum, Emil Scher.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Md., Baltimore—The Chestnut Farm Dairy, Inc., 1048 Granby St., incorporated; Joseph D. Stark, Louis Snesil.

Md., Baltimore—Baltimore Forwarding & Transport Co., Inc., Keyser Bldg., capital \$35,000, incorporated; James S. Whiteley, Chas. F. Brown.

Md., Baltimore—Kunkel & Haverstick, 828 Light St. will erect \$25,000 bakery plant at 806 Light St., 2-story, modern structure, install additional equipment, increase capacity of present plant.

Md., Baltimore—National Electric Equipment Co., 11 W. 25th St., capital \$10,000, incorporated; J. Spencer Clark, Thomas S. Clark.

Md., Baltimore—The White Co., E. A. Conston, Mgr., Loney's Lane and Biddle St. reported, will erect 3-story addition to present plant, 120x80-ft.; increasing capacity to 3000 gal. paint and 1000 gal. varnish; cost of building and equipment approximately \$75,000.

Md., Baltimore—Underwear—The Regatta Manufacturing Co., Chas. L. Wolfe, Pres., established branch plant at 1021 Curley St.

Md., Baltimore—Eastern Laundries Corp., 101 E. Fayette St., chartered; E. Harry Frost, Douglas H. Rose.

Md., Baltimore—Louis Jacobs & Sons, Inc., 1301 E. Fayette St., capital \$25,000, incorporated; Raymond L. Jacobs, Paul W. Jacobs.

Md., Baltimore—Colonial Carpet Cleaning Co., Inc., 2527 Frederick Ave., chartered; Bear Klein, C. Abraham Perlman.

Md., Baltimore—Durable Silk Products Co., Inc., 1319 Fidelity Bldg., capital \$100,000, incorporated; Esther L. Shefels, Alice V. Freehey.

Md., Baltimore—The Meadow Croft Publishing Co., 103 Mercer St., incorporated; Charles H. M. Croft, Wm. F. Croft.

Md., Baltimore—The United Paper Co., 101 Dover St., incorporated; Wirt A. Duval, Jr., W. Wallace Rynhart, Jr.

Md., Baltimore—National Radio Corp., Lake Drive Apts., capital \$100,000, incorporated; Joseph M. Mann, Gordon D. Adler.

Md., Baltimore—The Hyperion Corp., 332 Equitable Bldg., chartered; Benjamin L. Henderson, Edward E. Stubbs.

Md., Hagerstown—Radio Supplies—A. E. Lutz Co., Inc., capital \$10,000, chartered; Austin E. Lutz, C. Walter Baker.

Md., Salisbury—The Salisbury Laundry will erect plant on Lake St.

Md., Salisbury—Robert D. Grier, Jr., Inc., capital \$50,000, chartered; Robert D. Grier, Clarence W. Wheaton.

Mo., Affton—Gravois Material & Supply Co., capital \$25,000, incorporated; Wm. J. Horst, Arthur V. Lashly, Webster Groves, Mo.

Mo., Kansas City—Willis Weber Paper Co., Tenth and Mulberry St., capital \$50,000, incorporated; Travers F. Willis, Arthur F. Weber.

Mo., Kansas City—Henion Marble & Tile Co., capital \$25,000, incorporated; Jay Henion, 409 E. Tenth St., St. Louis; C. E. Henion.

Mo., Kansas City—Independent Film Corp., chartered; Joseph Silverman, 2616 Prospect St.; Theodore Silverman.

Mo., Kansas City—The Crystalene Co., incorporated; F. L. Alexander, 3917 Scarriff; R. C. Christie; manufacture cleaning compounds.

Mo., Kansas City—Masonic Light Publishing Co., incorporated; Philip H. McKinley, 103 N. Glaston St.; Henry Beebe.

Mo., Kansas City—E. E. Surface of the Surface Paint & Glass Co., 18th & Oak St. has acquired building at 1821 Charlotte St., will remodel to manufacture paint.

Mo., St. Joseph—St. Joseph Cinder Block Co., capital \$30,000, incorporated; N. D. Biles, 1422 S. 6th St., N. D. Biles, Jr.

Mo., St. Louis—Shea Painting & Decorating Co., incorporated; J. E. Shea, 6408 Ridge St.; R. H. Fatler.

Mo., St. Louis—Lawson-Everson Paint Co., capital \$30,000, incorporated; A. Lawson, E. Eberson, 5736 Westminster St.

Mo., St. Louis—Engineers—Plaza Comsn., Inc., chartered; Wm. B. Ittner, 911 Locust St.; John Lawrence Mauran.

Mo., St. Louis—W. C. Richardson Co., 1432 Olive St., capital \$10,000, incorporated; W. C. Richardson, John J. Taylor; manufacturers' agents.

Mo., St. Louis—The Wholesale Musical Co., incorporated; C. W. Layer, 1030 Commo-

dore Drive; Ray C. Dyer; manufacture musical instruments.

Mo., St. Louis—St. Louis Bread Co., capital \$100,000, incorporated; E. T. Norton, Pres., 1201 N. Kingshighway Blvd.; Edwin J. Mosser, Sec.

Mo., St. Louis—Granville Chemical Corp., incorporated; James G. Gatlin, 406 Market St., Charles Molt.

Mo., St. Louis—J. M. Huber Co., 602 62nd St., Brooklyn, N. Y. has leased building of the Anheuser-Busch, Inc., on Second and Dorcas St.; manufacture printers ink.

Mo., St. Louis—Koppers Construction Co., capital \$15,000, incorporated; W. F. Rust, V. P.; John S. Brookes, Jr., Sec.

Mo., St. Louis—Public Safety Committee of Board of Aldermen approved an appropriation of \$136,000 for additional fire-fighting apparatus, purchase includes 5 motor pumping engines, 3 aerial hook and ladder trucks, two city service hook and ladder trucks, 2 supply trucks and one 5-passenger touring car.

Mo., Windsor—Brooms—Windsor Manufacturing Co., capital \$10,000, incorporated; Henry H. Booeker, St. Louis; S. E. Roberts, Windsor.

Miss., Vicksburg—Cudahy Packing Co., main office Chicago, Ill., will erect \$30,000 branch plant at Crawford and Levee St., 1-story, brick and concrete; plans by A. H. Ruf.

N. C., Asheville—The Jackson-Taylor Co., capital \$100,000, incorporated; Walter P. Taylor, 270 Cumberland Ave.; L. B. Jackson.

N. C., Asheville—Holmes Bryson, Pres. of special committee and associates, interested in erecting World War Memorial.

N. C., Greensboro—McClamroch Builders Supply Co., Walker Ave., increased capital, \$57,000 to \$100,000.

N. C., Greensboro—Mi-Valet, Inc., capital \$15,000, chartered; John W. Caffey, S. A. Caveness; dry cleaning, dyeing, etc.

N. C., High Point—The North Carolina Public Service Co., J. H. Jennings, Gen. Mgr., contemplates establishing bus lines in place of trolley service.

N. C., High Point—Carolina Garment Co., capital \$100,000, incorporated; H. T. Hudson, C. C. Garrett.

N. C., Kinston—Seashore Transportation Co., capital \$100,000, incorporated; R. F. Churchill, 804 N. Queen St.; C. W. Prudgen.

N. C., Old Fort—Blue Ridge Coach Line, Inc., capital \$100,000, chartered; H. A. Ragle, Adam W. Jones.

Okl., Ada—Wilson Co., capital \$45,000, incorporated; M. C. Wilson, L. S. Chilcut.

Okl., Altus—Western Sign Co., capital \$10,000, incorporated; E. G. Gibbons, C. W. Harbinson.

Okl., Tulsa—Ozark Chemical Co., capital \$350,000, incorporated; R. J. St. Germain, R. S. Fellows, Kennedy Bldg.

Okl., Tulsa—Bartlett Collins Glass Co., Edward E. Bartlett, Treas. and Mgr., Sapulpa, contemplates establishing plant.

Okl., Tulsa—French Plaza & Shops, capital \$10,000, incorporated; F. J. Francis, E. P. Green.

S. C., Columbia—The Orange Crush Bottling Co. Inc., capital \$10,000, chartered; Jasper C. Hall, Pres.; Bertha A. Hall, Sec.

Tenn., Chattanooga—Bruce-Criswell-Adams Co., capital \$9500, incorporated; Robert R. Bruce, John B. Criswell.

Tenn., Chattanooga—The Chattanooga Oil Burner Co., incorporated; A. L. Mason, Charles M. Seymour.

Tenn., Chattanooga—Chattanooga Community Advertising Assn., incorporated; X. C. Patter, Jr., Paul J. Krusel.

Tenn., Chattanooga—Moore-Merritt Rubber Co., capital \$10,000, incorporated; L. H. Theobold, F. M. Ferguson.

Tenn., Knoxville—The Saint James Hotel, Inc., capital \$26,000, chartered; W. G. Miller, John L. Greer.

Tenn., Lebanon—Barbee Candy Co., capital \$10,000, Tabitha Barbee, Mrs. Edgar Cox.

Tenn., Memphis—Mississippi River Ferry Co., capital \$10,000, incorporated; C. J. Miller, Geo. W. Mil.

Tenn., Memphis—Printing—R. O. Schaefer, Inc., Builders Exchange, capital \$15,000, chartered; R. O. Schaefer, H. H. Peters.

Tex., Belton—C. C. Watson of Midland,

Tex., has acquired the Belton Journal; will publish.

Tex., Dallas—Bakery—W. H. King, 410 Andrews St., will erect \$77,965 addition; fireproof, 137x140-ft., concrete slab floors; tar and gravel roof; Lang & Witchell, Archts., American Exchange Bank Bldg.*

Tex., Dallas—Window Shades—Hall Curtain Corp., capital \$35,000, chartered; J. R. Binford, J. E. Zang.

Tex., Dallas—The Lovelace Bus Line, Inc., chartered; A. W. Walker, Linz Bldg.; James Walker.

Tex., Edna—City and Jackson County Chamber of Commerce interested in establishing fig preserving plant.

Tex., Gulf—A. C. Stewart, Inc., capital \$12,500, chartered; W. W. Stewart, W. D. Hart.

Tex., Houston—Engineers, etc.—Sam D. Cook Co., Larendon Bldg., incorporated; Sam D. Cook.

Tex., San Antonio—Deems Traction Hitch Corp. of Texas, capital \$10,000, chartered; Wm. Perrin, T. P. Hull, Bedell Bldg.

Tex., San Antonio—The Commercial Building Co., capital \$18,000, incorporated; Geo. B. Taliaferro, Everton Oak Hill; Z. D. Bonner.

Tex., San Antonio—Red Ball Bus Lines & Terminals, Inc., chartered; J. E. Solomon, D. M. Dickson.

Va., Norfolk—The Splash-Bunt Sports & Amusement Co., incorporated; F. P. Harriss, Pres.; Geo. F. Viett, Sec., 204 Park Ave.

Va., Norfolk—The Norfolk Glass Co., Inc., capital \$50,000, chartered; Joseph Gurfein, Pres. 543 W. 37th St.; B. Gurfein, Sec.

Va., Norfolk—Eastover Apartment Corp., capital \$36,000; John W. East, Pres.; J. Frank West, Jr., Sec.

Va., Richmond—Seville Hotel Apartments, Inc., capital \$125,000, chartered; M. R. Florschheim, J. Lee Davis.

Va., Richmond—Tidewater Transportation Co., capital \$350,000, incorporated; Oscar L. Shewmake, Pres. and Gen. Counsel, Williamsburg; R. Hill Fleet, Sec., 505 E. Grace St., Richmond; reported organization formed by merger of The Richmond-Northern Neck Bus Co., the Capital Transportation Co. and the Dominion Transit Corp.; will operate over approximately 600 mi. territory.

Va., Richmond—E. L. Baker Shoe Co., capital \$10,000, incorporated; E. L. Baker, Pres.; Harvey Ashburn, Sec., 111 St. James St., both Suffolk; repair shoes.

W. Va., Dunbar—Dunbar Flint Glass Corp., J. M. Payne, Jr., Pres., lately noted to have acquired adjoining plant, advises: We have bought the Pennsylvania Glass Co.'s plant which adjoins ours here at Dunbar, and are now taking steps to put same back into commission, will probably have this work completed, will double our production capacity; we are not contracting for this work but are doing it ourselves.*

W. Va., Huntington—The Zipp-Beckmeyer Construction Co., capital \$100,000, incorporated; E. L. Williams, P. H. Zipp, 1438 4th Ave.

W. Va., Huntington—R. L. Hutchinson, Inc., 1509 6th Ave.; capital \$50,000, chartered; R. L. Hutchinson, A. H. Dickinson.

W. Va., Huntington—The J. B. Sadler Tile Works, 342 4th Ave.; capital \$10,000, incorporated; V. C. Sadler, R. P. Hulholland.

W. Va., Huntington—Publishing—The Herald-Dispatch, will soon begin construction of new building on Fifth Ave., 3-story, brick and steel. Address The Editor.

Tex., Wichita Falls—Wichita Falls Bus Co., incorporated; Roy McMillen, F. C. Johnson, 508 Lamar St.

Motor Cars, Garages, Tires, Etc.

Ala., Bay Minette—Canterbury Motor Co., incorporated; I. I. Canterbury, Jessye Canterbury.

Ala., Birmingham—The Firestone Rubber Co. and the McCarty-Green Automobile Co. will occupy \$50,000 building on Avenue D.; to be erected by the Rushton Corp., 2-story, brick and concrete with ornamental front.

Ala., Birmingham—The Drennen Motor Car Co., 400 S. 20th St., will erect \$33,000 garage on Avenue E, 2-story, brick and steel.

Ala., Birmingham—Rent-A-Ford Co., incorporated; A. B. Langley, 1019 S. 15th St.; Lee J. Langley.

Ark., Little Rock—L. E. Whitmore, 1213 Main St., let contract to Ault & Burden, W. 2nd St., for \$40,000 building, 600 W. Capitol Ave., 2-story, 80x100 ft., brick and mill construction with sprinkler system, concrete floor,

gravel roof, concrete foundation; William Dill, Archt.*

Fla., Avon Park—Park Motor Co., T. C. Hobbs, Pres., Main St., will erect 80x135 ft. building, brick and steel, tile and cement floors; construction under Supt. Geo. E. Brown, Archt., Jacksonville.*

Fla., Tampa—Arthur Wade Motor Co., capital \$10,000, incorporated; Arthur L. Wade, Pres., 1805 Vatruos Ave.; J. S. Lyon, Sec.

Fla., Winter Haven—See Land Development.

Fla., West Palm Beach—Newlon & Stephens, Contrs., will erect \$90,000 garage on S. Dixie Highway at Woodlawn Park, 125x90 ft., reinforced concrete.

Ga., Augusta—Marshall-Corley Co., Inc., capital \$10,000, chartered; F. L. Marshall, 1131 Highland Ave.; T. B. Corley.

La., Monroe—Motor Supply Co., Inc., capital \$50,000, chartered; Wm. O. Campbell, Alexandria Ave.; Geo. G. Weak.

La., Shreveport—American Body Co., A. A. Richeison, Pres., 2802 William St., Dallas, Texas, reported will establish branch manufacturing plant; manufacturers Ford trucks and bodies.

Md., Baltimore—Thomas Mullan, Contr., 3945 Greenmount Ave., has contract for \$200,000 sales and service station on 20th St., west of Harford Ave.; 1-story, 252x200 ft.; to be occupied by the Mack International Motor Truck Corp., 2823 Greenmount Ave.

Md., Baltimore—Ellis & Starlings, Inc., 1304 N. Calvert St., chartered; Frank J. Starlings, Thomas E. Ellis.

Md., Baltimore—The Altamont Garage, Inc., 1107 Madison Ave., chartered; John J. Brandt, Jr., Edward Eisenbrandt.

Md., Reisterstown—Turner-Fox Motor Co., incorporated; Horace C. Turner, Earcry S. Fox; have taken over the H. C. Turner Motor Co. Inc.

Miss., Bude—The Mississippi Motor Corp., capital \$15,000, chartered; A. L. Stephens, Meadville; F. A. Anderson, Gloster.

Mo., Kansas City—Grafoleum Products Co. will occupy filling station corner Sixty-first St. and Troost Ave., to be erected by Judsohn H. Wood.

Mo., Kansas City—Fred W. Fleming and Francis M. Wilson, 208 Victor Bldg., receivers for Kansas City Ry. Co., reported plans building modern garage at 9th and Washington Sts. for new busses to be purchased for service, capacity 75.

Mo., St. Louis—Bray-Hambuechen Motor Co., capital \$60,000, incorporated; W. Bray, J. Bray.

Mo., Williamsburg—The Burton Motor Co., incorporated; Jesse W. Burton, Willie E. Burton.

N. C., Reidsville—The Turner Motor Co., Inc., capital \$20,000, chartered; Paul A. Turner, Jack Hoplins.

N. C., Smithfield—Sanders Motor Co., capital \$50,000, incorporated; W. Ransom Sanders, D. W. Parrish.

Okla., Oklahoma City—Buick Motor Co., reported, will erect \$200,000 building corner Tenth and Broadway; 4-story; has 50x150-ft. site; S. A. Layton and A. O. Campbell, Archts.

S. C., Pickens—C. L. Cureton will erect 50x100-ft. brick building on Ann St., to be occupied by Casey Porter and Luther Hughes for machine shop, garage, etc.

S. C., Rock Hill—T. Q. Blackwelder, will erect filling station corner Caldwell and White St.

Tenn., Chattanooga—D. S. Etheridge & Co., 4th and Broad Sts., increased capital, \$100,000 to \$300,000; automobile supplies.

Tenn., Memphis—McKinon & Long, Inc., 758 Union Ave., chartered; W. H. McKinon, Preston Long.

Tex., Cuero—R. A. Nagel Motor Co., capital \$20,000, incorporated; R. A. Nagel, H. W. Nagel.

Tex., Dallas—Sanger Brothers, 1416 Marilla St., reported, will erect \$100,000 garage corner Elm and Austin St. to accommodate cars for customers of the Sanger Department Store; 5-story, 100x100-ft., fireproof; install ramps instead of elevators; J. A. Pitzinger, Archt., Southwestern Life Bldg., Dallas.

Tex., Dallas—Cary, Schneider Investment Co., Medical Arts Bldg., let contract to H. T. Apple, 28 N. Forest St., Dallas, for \$100,000 garage building, reinforced concrete, 4-ply tar and gravel roof, concrete floor, steel sash and trim, metal doors, hollow tile, wire glass, ornamental terra cotta; will install elevator, plumbing system, etc.

Tex., Dallas—Lawrence F. Wilson, 15 Pa-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

cific St., will erect \$75,000 automobile building, 2 story.

Tex., El Paso—The Buick Motor Car Co. and the Watkins Motor Car Co., have leased building, Leon and E, San Antonio St., will remodel, costing approximately \$15,000.

Tex., Fort Worth—General Tire Co., incorporated; D. S. Fitzgerald, John W. Miller.

Tex., Lone Oak—Toneray Motor Co., capital \$10,000, incorporated; Henry Toneray, W. E. McGee; manufacture automobile parts, airplanes, etc.

Tex., San Antonio—Dr. L. L. Shopshire, Moore Bldg., let contract to Ed. W. Oeffinger at \$27,755 for garage building on Martin St.; 1 story, 90x160-ft., reinforced concrete and brick; Will Noonan, Archt., Moore Bldg.

Tex., San Antonio—J. F. Hagan let contract to L. T. Wright & Co., City Natl. Bank Bldg., for 1-story 110x200-ft. fireproof garage on San Pedro Ave. between Cypress and Poplar St.

Tex., San Antonio—J. F. Hagan, 311 E. Courtland St., will erect \$25,000 garage on San Pedro Ave.

Tex., San Antonio—Louis W. Lipscomb let contract to L. W. Mitchell, Builders Exchange, for \$36,000 garage at Martin and Prospect Sts., 52x168 ft., hollow tile and concrete, Barrett roofing, concrete flooring; Richard V. Stratton.*

Tex., Sherman—Shipp Buick Co., capital \$30,000, incorporated; Thomas N. Shipp, John L. Shipp.

Tex., Teague—Riley-Boyd Motor Co. will remodel 1-story brick building; receives bids May 5; Paul G. Silber Co., Archts., Bedell Bldg., San Antonio.

Va., Richmond—Toombs-Rolfe Co., Inc., chartered; E. L. Toombs, Pres.; W. M. Carter, Sec., 2400 Barton Ave.; motor repairs.

W. Va., Huntington—The Ray U-Drive-It Co., capital \$10,000, incorporated; A. C. Ray, J. S. Quillen.

W. Va., Ronceverte—The Blair Motor Co., capital \$25,000, incorporated; Frank J. Blair, R. B. Campbell.

Railway Shops, Terminals, Round-houses, Etc.

La., New Orleans—The Texas & Pacific Railway Co., E. F. Mitchell, Chief Engr., 1003 Texas & Pacific Bldg., advises: Some track rearrangement is contemplated in the yard, but definite plans are not yet out.*

Tex., Dallas—The Texas & Pacific Railway Co., E. F. Mitchell, Chief Engr., 1003 Texas & Pacific Bldg., advises: Contract for clearing, grubbing and grading of new terminal yard and engine facilities to be owned by the Texas & Pacific Ry. and used jointly by the Missouri Pacific R. R. Co., was awarded last week to the R. & P. Construction Co. of Houston and New Orleans, La.; work started on it; this is only part of work on which proposals have yet been requested; contract for grading of yard at Dallas let to Gifford Construction Co., Dallas; involves about 215,000 cu. yds. grading; concrete subway in connection with Dallas yard project was awarded to Southwell & Abbot of Fort Worth; cost approximately \$50,000.*

Tex., Waco—Texas Electric Railway, A. J. Bush, Mgr., reported; will build \$8000 addition to car barns, 66½x60-ft., concrete building.

Va., Norfolk—The Virginian Terminal Ry. Corp., reported, will erect \$12,500 office and oil house at Sewells Point; reinforced concrete and brick.

Va., Petersburg—Virginia Railway & Power Co., Richmond, Va., reported, let contract to Allen J. Saville Co., Va. Rwy. & Power Bldg., for \$75,000 terminal on Second St., 3 story, 120x60 ft., reinforced concrete; construction begun.

Road and Street Construction

Alabama—State Highway Comm., Montgomery let contracts for 4 roads and bridges: Covington County, sand clay road, J. M. Pilcher, Florala; Autauga County, totaling 24 mi.; Sec. A and B, Birmingham-Montgomery Highway, D. R. Cooke, Montgomery, \$115,992; Sec. C, northern end to Autauga County line, Newell Construction Co., Birmingham, \$65,423; bridges on entire project, J. A. Pickford, Russell, Miss., \$68,497.*

Alabama—State Highway Comm., Montgomery, receives bids May 13 for 2 roads and bridges: Talladega County, 167,000 sq. yd. surface treatment of asphalt or inverted penetration; Madison County, 11.64 mi. road between Marshall County line and Federal Aid Project No. 39, 177,303 cu. yd. excavation, borrow and solid rock excavation,

98,435 lbs. reinforcing steel, in culverts; also temporary bridges and approaches, 214,894 lbs. reinforcing steel, 113,773 lbs. structural steel including castings; plans on file and from Div. Engr., Lincoln Life Bldg., Birmingham.

Ala., Atmore—City, D. D. McDavid, Clk., let contract to Morgan-Hill Paving Co., Birmingham, for 13,073 sq. yd. paving, \$146 lin. ft. combined curb and gutter, etc.; J. B. McCrary Engineering Corp., Engr., Atlanta, in charge.*

Ala., Birmingham—City Comm. plans shert streets with sidewalks, curbs and gutters. on 3d and 4th Aves. and 42d Place, and one block paving on 8th Ave., South; cost \$32,200.

Ala., Birmingham—City plans expending \$460,000 to pave 7 streets and avenues, including 18th, 9th, 35th Sts. and 5th Ave.; A. J. Hawkins, City Engr.

Ala., Birmingham—See Land Development.

Ala., Decatur—City let contract to Independent Paving Co., Birmingham, at about \$27,000, to pave Vine and Davis Sts. and Fifth Ave., West.*

Ala., Florence—City plans paving Royal Ave. and laying sewers; voted \$264,000 bonds. Address City Clk.

Ala., Jasper—Walker County Commrs. Court receives bids May 7 for 14 mi. Jasper to Oakman Highway, 67,440 sq. yd. 18-ft. one-course plain cement concrete pavement, 40,010 sq. yd. 9-ft. one-course plain cement concrete pavement; plans from E. W. Long, Judge of Probate, or Paul S. Haley, Engr., Oakman.

Ala., Montgomery—See Bridges, Culverts, Viaducts.

Ala., Sheffield—City Comm. plans paving 7 streets and widening and paving Jackson Highway from 2d to Broadway; also installing sanitary sewers in eastern section and south of railroad tracks on Montgomery Ave.

Ala., Tuscaloosa—Tuscaloosa County Board of Revenue plans expending \$600,000 to improve Tuscaloosa-Birmingham concrete highway, from Tuscaloosa to Jefferson County line, state and federal aid; also 9 mi. concrete road from Tuscaloosa to river toward Green County line, approximate cost \$270,000.

Arkansas—State Highway Comm., Little Rock, let contract for 2 roads: Union County, 8.93 mi. 18-ft. gravel surface on El Dorado Junction City, Tarrant & Mills, El Dorado, \$56,727; State furnishes gravel; Grant County, 2.57 mi. grade, drainage structures and gravel surface; Leola-Poyen, J. A. Mingea, Sheridan.*

Ark., Batesville—City plans expending \$250,000 to pave 75 blocks in various sections. Address City Clk.

Ark., Van Buren—Crawford County receives bids May 1 for 10 mi. graveled road from Van Buren to Alma, and bridge over Clear Creek near Alma, approximate cost \$80,000; R. C. Limerick, State Highway Engr., Little Rock; W. W. Mitchell, Dist. Highway Engr., Fort Smith; R. A. Wilson, County Judge.

D. C., Washington—Dist. Commrs. receive bids Apr. 23 to pave streets and avenues with sheet asphalt; plans at Room 427, Dist. Bldg.

Florida—Walter J. Hill, St. Paul, Minn., and Palm Beach, reported considering \$2,650,000 highway in Florida.

Florida—State Road Dept., Tallahassee, receives bids May 12 for 8 roads: Clay County, 6.68 mi. Road No. 13 from Bradford County line to Maxville, Florida lime rock base, on prepared subgrade; Alachua County, 5.17 mi. Road No. 5 from High Springs to High Springs-Newberry Dist. line; 10.89 mi. State Road No. 5, from High Springs-Newberry Dist. line to Newberry-Archer Dist. line, grading and constructing drainage structures; Volusia County, 9.92 mi. Road No. 3, from De Land-Orange City Dist. line to St. Johns River, Florida lime rock base on prepared subgrade; Highlands County 6 mi. Road No. 8 from Lake Annie, east, Florida lime rock base on prepared subgrade; 7 mi. Road No. 8 from 6 mi. east of Lake Annie to Project 630; Santa Rosa County, .34 mi. Road No. 1 from Blackwater River Bridge to brick pavement, 20,000 cu. yd. earth embankment; Lake County, 3.52 mi. Road No. 2-A from Leesburg to Helena Run, grading, drainage structures and bioluminous macadam, sheet asphalt, asphaltic concrete or brick on Florida lime rock base with and without concrete flush curb; plans from Div. Engr.; J. L. Cresap, State Highway Engr.

Fla., Apalachicola—Franklin County plans hard surfaced road from Calhoun County line to Wakulla County line, on State Route No. 5; contemplates \$250,000 bond election. Address County Commrs.

Fla., Arcadia—City plans street paving, extending lights, sewerage and water mains; contemplates \$350,000 bond issue; J. B. McCrary Co., Engrs., Atlanta, Ga.

Fla., Auburndale—Town, Dean Hickman, Mayor, receives bids May 4 for 87,550 sq. ft. sidewalks and 48,000 sq. yd. street paving with necessary drainage and curb; plans from J. J. Stringfellow, Constl. Engr., Lakeland, or W. B. Brewer, Clk.

Fla., Bushnell—See Land Development.

Fla., Bushnell—City plans street paving; E. V. Camp and Associates, Engrs., Moreland & DeKalb Aves., Atlanta, Ga.

Fla., Bushnell—Sumter County Commrs., F. L. Rulland, Chmn., plans 60-mi. road paving; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta.

Fla., Bartow—Polk County Commrs. plan road building in Special Road and Bridge Dist. No. 13; voted \$325,000 bonds.

Fla., Bartow—Polk County Commrs. plan 14 roads, totaling 31½ mi., including 8 mi. from Foxtown to Polk City, in Special Road and Bridge Dist. No. 12; votes May 12 on \$625,000 bonds.*

Fla., Bartow—Polk County Commrs. let contract to Finley Method and McCloud Companies, at \$280,000 for 7 roads, totaling 31 mi.; 9 mi. Lake Henry; 4 mi. west of Homeland; 4 mi. east of Homeland; 2½ mi. via Tiger Bay; 4 mi. New Hope; 5 mi. via Tilghman to Durance settlement; 6½ mi. via Fort Mead-Brewster-Agricola.

Fla., Clearwater—Pinellas County, Safety Harbor Road and Bridge Dist., plans improving and building 5 roads; voted \$425,000 bonds Bay Shore Drive along Old Tampa Bay, from Phillips Point south to Bay View; Haines road; extend Main St.; pave Fourth St.; pave road to Sylvan Abbey Cemetery. Address County Commrs.

Fla., Dade City—Pasco County Commrs. plan building 27 roads, totaling 123 mi.; voted \$1,330,000 bonds. Address County Commrs.*

Fla., Daytona—City plans widening Lower Beach St. between 1st and Fairview Aves.; C. L. Vining, Commr.

Fla., DeLand—Volusia County, DeLand-Helena Special Road and Bridge Dist. plans widening 3 roads to 18-ft.; widen 9-ft. brick DeLand-Daytona; Crow's Bluff and River road; votes May 12 on \$600,000 bonds. Address County Commrs.

Fla., Dunedin—City plans expending \$500,000 for street improvement. Address City Clk.

Fla., Eagle Lake—City plans 7 mi. street paving; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta.

Fla., Fort Lauderdale—R. R. Bailey and J. J. Bridges let contract to Robinson Construction Co., Fort Lauderdale and Dania, for 4½ mi. road from Miami Gardens toward Fort Lauderdale.

Fla., Fort Lauderdale—Broward County Commrs. plan building 2 roads: Completing Long Beach road from Lauderdale-by-the-Sea to Broward County line; 5 mi. road from Dania, southward; votes May 12 on \$1,500,000 bonds; J. F. Charleston, Engr.*

Fla., Fort Pierce—See Land Development.

Fla., Gainesville—See Land Development.

Fla., Gainesville—City plans 10 to 12 mi. street paving, with curbs and gutters; G. H. Cairns, City Mgr.; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta.

Fla., Haines City—See Land Development.

Fla., Interlachen—See Land Development.

Fla., Jacksonville—Duval County Commrs. plan completing road building; votes May 26 on \$1,125,000 bonds.

Fla., Jacksonville—See Land Development.

Fla., Ocala—See Land Development.

Fla., Orlando—See Land Development.

Fla., Palm Beach—See Land Development.

Fla., Sarasota Heights—Town, J. W. Tatrum, Clk., let contract to Bryson Paving Co., Sarasota, to pave streets in McClellan Park, 6-in. rock base, 2-in. sheet asphalt surface.

Fla., St. Petersburg—See Land Development.

Fla., Sebring—City plans extending boulevards and paving annexed sub-divisions and those to be annexed; votes this summer on bonds. Address City Clk.

Fla., Tampa—City, W. Lesley Brown, Mgr., plans grading and paving 4 streets, including Delaware Ave. and 9th St.

Fla., Tavares—Lake County, Groveland, Mascotte and Okahumpka Dists., plan building 2 roads, totaling 37 mi. permanent hard surface: From Helena Run to Polk County line, via Okahumpka, Mascotte and Groveland; from Sumter County line to Parker's Crossing, 3 mi. east of Groveland; voted \$750,000 bonds; Geo. F. Revels, Commr.

Fla., West Palm Beach—See Land Development.

Fla., West Palm Beach—City, C. A. Bingham, Mgr., plans expending \$1,000,000 for street paving.

Fla., West Palm Beach—Palm Beach County Comr., plan rebuilding and widening Dixie Highway and Ocean Blvd., and building or repairing bridges; contemplate \$7,000,000 bond issue; George O. Butler, County Engr.

Fla., Winter Haven—See Land Development.

Ga., Augusta—Augusta-Savannah Highway Assn., incorporated; Walter Harrison, Sec. Millen Chamber of Commerce, Chmn.; interested in paving highway between Augusta and Savannah.

Ga., Davenport—City let contract to McLeod Construction Co., Tampa, for 10 mi. street paving and 20 mi. curb and gutters; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta.

Ga., Dalton—City plans additional street paving; Dr. J. G. McAfee, Mayor; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta.

Ga., Thomasville—See Land Development.

Ky., Glasgow—Barren County Fiscal Court plans improving 3 roads: 8 mi. Dixie Highway from Hart to Edmonson County line; 7 mi. Jackson Highway in southern part of county; Glasgow-Burkesville road. Address County Comr.

Louisiana—Highway Comm., Raymond Bldg., Baton Rouge, receives bids May 14 for 4 gravel roads: Natchitoches Parish, Natchitoches-Boyce Highway; Sec. B, 8.91 mi. from east end of bridge over Cane River at Natchitoches to Pratts Bridge, and on to Natchez Lane; Sec. C, 7.04 mi. Natchez Lane to point near north end of bridge over Old River at Cypress; Webster Parish, 10.68 mi. Minden-Lewisville Highway, from Minden to Flat Lick Creek Bridge; Lincoln Parish, 3.46 mi. Duston-Chatham Highway, from Ruston to Jackson Parish line; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)

Louisiana—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received low bids for 3 levee roads: Iberville Parish, White Castle New Levee, Byrd & Clopton, Morrow; Ascension Parish, McCall New Levee, Tircuit & Co., Plaquemine, La.; Iberville Parish, Catherine New Levee, Tircuit & Co.

La., Baton Rouge—City Comm. receives bids May 5 to pave 43 streets with Warrenite bitulithic, sheet asphalt and asphaltic concrete on concrete base, 128,000 sq. yd. surfacing and base, 40,000 cu. yd. excavation, 290 catch basins, 92,593 lin. ft. curb and gutter, 17 manholes; plans from J. W. Billingsley, Cons'tl. Engr.

La., Baton Rouge—Road and Bridge Committee of East Baton Rouge Parish Police Jury, F. A. Woods, Sec., let contract to E. J. Deas Paving Co., Bell Bldg., Shreveport, to surface with Warrenite bitulithic on concrete base Dyke road, from city limits to Our Lady of Lake Sanitarium.*

La., Clinton—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received low bid from C. O. Bozeman Construction Co., Baton Rouge, at \$8592 for 2.61 mi. Slaughter-Mississippi Highway, from Norwood to point north of Wilson.*

La., Clinton—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids May 7 for 1.43 mi. gravel, St. Francisville-Clinton Highway, East Feliciana Parish, from east bank of Comite River to Clinton; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)

La., Homer—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids May 12 for 8.96 mi. Homer-Farmerville Highway, Claiborne Parish, from Lisbon to point about 6½ mi. northwest of Dubach; plans on file; W. B. Robert, State Highway Engr.

La., Lake Charles—Calcasieu Parish Police jury plans completing Vinton-Sabine marsh road. Address Police Jury.

La., Pineville—City let contract to Carbo

& Wilks, Alexandria, to gravel and lay concrete curbing on Lee St. from Lakeview to Sanders.

La., St. Francisville—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, receives bids May 12 to grade, construct culverts and gravel 5.25 mi. St. Francisville-Jackson Highway, West Feliciana Parish, from point 6 mi. east of St. Francisville to Thompson Creek Bridge near Jackson; also to improve West and Middle Bridges, 4600 lin. ft. creosoted piling, 30,000 ft. creosoted lumber; plans on file; W. B. Robert, State Highway Engr. (See Machinery Wanted—Gravel.)

La., Shreveport—City receives bids April 28 to pave 1½ mi. Fetzer Ave. with Warrenite bitulithic, estimated cost \$140,000; L. E. Thomas, Mayor. Address City Engr.*

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, receives bids May 5 for 9 roads: Howard County, 2 mi. concrete, from end of Cont. Ho-31 to Sampsonville, and from end of Cont. Ho-31 to Dayton, Cont. Ho-45; Baltimore City, .52 mi. sheet asphalt on Milton Ave., from McElberry St. to North Ave., Cont. BC-53; St. Mary's County, 1.25 mi. gravel from Pearson toward Cedar Point, Cont. SM-34; Wicomico County, 1.44 mi. concrete on Main St., Salisbury, extended, Cont. Wi-27; Carroll County, 11.25 mi. concrete shoulders from Reisterstown to Westminster, Cont. CI-21-A; Prince George's County, 4.75 mi. concrete shoulders from D. C. line to Camp Springs, Cont. P-12-A; Anne Arundel County, 8.5 mi. concrete shoulders on Annapolis Blvd., from Brooklyn to Mountain road, Cont. AB-1-A; Dorchester County, 1.64 mi. concrete shoulders, from Cambridge to Mt. Holly, Cont. D-6-A; Worcester County, 8.2 mi. concrete shoulders, from Berlin to Ocean City, Cont. Wo-5-A; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, receives bids Apr. 28 for 9 roads: Garrett County, 7.5 mi. concrete from Sand Flat to Altamont, Cont. G-29; Baltimore City, .78 mi. concrete along Pennington Ave., from Coast Guard Station to southern city limits, BC-52; St. Mary's County, 2 mi. gravel from Chaptico toward Maddox, Cont. SM-32; Cecil Co., 3.88 mi. concrete from Blue Ball to Andora, ont. Ce-48; Talbot County, 2.26 mi. concrete, from Queen Anne toward Cordova, Cont. T-22; Washington County, 1 mi. concrete shoulders from Hagerstown to top of South Mountain, Cont. W-9-A; Allegany County, 8.75 mi. concrete shoulders from Cumberland to Frostburg, Cont. A-1-A; Montgomery County, 4 mi. concrete shoulders from Silver Springs toward Olney, Cont. M-10-B; Harford County, 11 mi. concrete shoulders from Belair to Aberdeen, Cont. H-1-A; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, received low bids for 5 roads: Carroll County, 1.51 mi. concrete surfacing along Libertytown-New Windsor road, from Frederick County line to end of Cont. CI-43, Ext. No. 2, Thomas, Bennett & Hunter, Westminster, \$44,783; Calvert County, 2.01 mi. gravel surfacing from All Saints Church toward Lower Marlboro, Strong & Steffy, 15 Park Road, New York City, \$19,611; Caroline County, .82 mi. concrete surfacing, from Preston to Choptank, Arthur Farmer, St. Michaels, \$17,999; Baltimore City, .63 mi. sheet asphalt on concrete base, Washington St. from Fayette to Chase, American Paving & Contracting Co., Montebello Ave. and B. & O. R. R., Baltimore, \$57,339; .17 mi. sheet asphalt on concrete base, North Ave. from John to McMechen St., American Paving & Contracting Co., \$19,807.*

Md., Baltimore—City, Howard W. Jackson, Mayor, received low bid from P. Flanigan & Sons, Inc., Harford Road and B. & O. R. R. at \$50,058, to pave 6 streets with sheet asphalt: Calvert, Charles, Hanover Sts., Linwood, Fairmount Ave. and intersection of Eutaw Place and North Ave.; plans replacing cobblestone on 8 blocks in East Baltimore; also paving with cement concrete 4 avenues and streets, including Norfolk and Morling Ave.*

Md., Catonsville—See Land Development.

Md., Cumberland—City receives bids April 27 to pave and curb Virginia St. from Baltimore & Ohio R. R. crossing to Western Maryland Ry. crossing, 33,850 sq. ft. concrete sidewalk pavement, 4220 lin. ft. straight concrete curb, 12 catch basins; plans from Ralph L. Rizer, City Engr.

Md., Towson—Baltimore County Comr. let contracts for 7 roads: 1.4 mi. combination curb and gutter, concrete shoulders, August Mayer, Relay, \$13,059; .6 mi. sheet asphalt, P. Flanigan & Sons, Harford road and B. & O. R. R., Baltimore, \$9984; .75 mi. macadam resurfacing, H. T. Campbell Sons Co., Towson, \$9990; 1.04 mi. concrete Hydes road and 1000 ft. Manor road, H. T. Campbell

Sons Co., \$24,018; 1 mi. macadam resurfacing Dogwood road and .5 mi. Rolling road, C. J. Spellman & Co., Maryland Ave. near Clare St., Baltimore, \$19,125.*

Miss., Charleston—Tallahatchie County, Board of Supvrs., plans building or improving 11 roads: From Tutwiler to Minot Road, at McMullen place; from Sumner-Vance Road at Buford's to residence of Rice plantation; from end of gravel on Sumner-Vance Road to Silent Shade Bridge; from end of gravel of Sumner-Vance Road to Tutwiler-Vance Road, near Fewell's gin; from Minot Road to Cooper Place, to Sunflower County line; from Minot at Friendship Church to Swan Lake Road; from Webb to Brazil; from Sumner to intersection Brazil-Webb Road; from Blue Lake Road, near Eason's Commissary to Countess Road; from end of gravel on Swan Lake Road to King residence; from Charleston Road, near William's Lake, to Cassidy Bayou Bridge at Sounder's Place; let contract to Pilkinton Brothers, Artesia, to gravel roads from Webb to Sunflower County line via Blue Lake, and road from Sumner to Sunflower County line via Friendship Church.

Miss., Batesville—Panola County Board of Supvrs. let contract to Williamson & Wilbourne, Water Valley, at \$34,000 for 3.117 mi. gravel on Jackson-Memphis Highway.*

Miss., Brandon—Rankin County Board of Supvrs. plans graveling 5 roads; votes May 2 on \$85,000 bonds: Jackson and Fannin, \$20,000; Brandon and Fannin, \$25,000; Brandon and Johns, \$20,000; Brandon and Starr, \$5000; Brandon and Jackson via State Farm, \$15,000.

Miss., Gulfport—Harrison County Board of Supvrs. and State Highway Dept., Jackson, receives bids May 7 on 3 mi. road north of Gulfport, estimated cost \$100,000; George Denman, Office Engr., State Highway Dept.

Miss., Gulfport—Harrison County Board of Trustees plans paving north and south roadway; contemplate \$55,000 bond issue.

Miss., Hattiesburg—Forrest County Board of Supvrs., Paving Dist. No. 1, plans road and street improvement; votes May 5 on \$150,000 bonds.*

Miss., Laurel—Jones County Board of Supvrs., receives bids May 8 for 20 mi. 24-ft. gravel surfaced road; plans from Chancery Clk. and J. R. Wheless, Engr., Hattiesburg.*

Miss., Pass Christian—City plans extending street paving; contemplates \$25,000 bond issue. Address City Clk.

Miss., Jackson—City, Walter A. Scott, Mayor, plans street improvement, and acquiring Esau St.; votes May 16 on bonds; M. S. Culley, City Engr.

Miss., Jackson—Hinds County Board of Supvrs., let contract to Owen & Gaddis at \$10,203 to pave section of Belhaven St. from city limits to Belhaven College, with vibro-bitilithic composition.

Miss., Nettleton—Board of Aldermen plan paving various streets and sidewalks; plans voting May 5 on \$5000 bonds.

Miss., Ripley—Tippah County Board of Supvrs. plans hard surfaced road from district line south of Ripley to Tennessee line via Ripley, Falkner, Tiplersville, Walnut and Newfield with spur east from Walnut to Chalybeate and west from Falkner, 2½ mi.; votes May 12 on \$25,000 bonds.

Miss., Water Valley—Yalobusha County Board of Supvrs. plans graveling and concreting several roads into Water Valley; votes May 2 on \$365,000 bonds.

Miss., Waynesboro—Wayne County Board of Supvrs. plans gravel road from Jones County line to Waynesboro; votes May 1 on \$10,000 bonds.

Miss., Winona—City receives bids May 5 to pave and improve 11 streets, including Railroad, Hampton, Sterling Ave., Church, College, Jones St.; plans from W. F. Blockston, City Clk.; J. Q. Staples, Mayor; Massena L. Culley, Engr., Jackson.

Missouri—State Highway Dept., Jefferson City, let contracts for 82 roads: Andrew County, from Rochester to Union Star, A. W. Mosley, Kansas City, 3.427 mi. graded earth, \$17,664; 3,504 mi. graded earth, \$15,516; Atchison County, from Tarkio south, Ziegler Bros., Junction City, Kansas, 1.769 mi. concrete, \$12,347; 1.769 mi. earthwork, from Rockport east, Ziegler Bros., 4.978 mi. earthwork, \$12,742; 4.978 mi. concrete, \$36,645; 4,932 mi. earthwork; 4,932 mi. 18-ft. concrete, \$22,305; Barry County, 4,951 mi. 16-ft. gravel, Washburn to Seligman, M. E. Gillios, Monett, \$18,350; 3,098 mi. 16-ft. gravel, Seligman north and south, M. E. Gillios, \$11,483;

CONSTRUCTION DEPARTMENT

Boone County, from Columbia west, Davis Construction Co., Boonville; 4,339 mi. earthwork, \$6,589; 4,339 mi. 18-ft. concrete, \$58,645; 4,932 mi. earthwork; 4,932 mi. 18-ft. concrete, \$74,478.

In Butler County, 4,179 mi. 12-ft. gravel, from Doniphian to Poplar Bluff, Energy Coal & Supply Co., Poplar Bluff, \$27,047; Callaway County, from Fulton to North Bloomfield, S. J. Groves & Sons Co., Minneapolis, Minn.; 3,778 mi. 30-ft. graded earth, \$14,445; 3,733 mi. 18-ft. gravel, \$13,415; Christian County, from Ozark north and south, J. A. Kerr, Ozark; 2,94 mi. 16-ft. gravel, \$15,324; 3,970 mi. 16-ft. gravel, \$7028; 2,640 mi. 16-ft. gravel, \$6,974; 4,104 mi. 16-ft. gravel, \$6402; 3,126 mi. 16-ft. gravel, \$6583; Dallas County, 4,860 mi. 30-ft. graded earth, M. E. Gillioz, Monett, \$15,918; Greene County, from Gallaway south, M. E. Gillioz; 1,281 mi. 18-ft. concrete, \$16,585; 1,281 mi. earthwork, from Springfield west, Kaw Paving Co., Topeka, Kansas; 2,273 mi. earthwork, \$6713; 2,273 mi. 18-in. asphaltic concrete, \$39,439; 3,502 mi. earthwork, \$11,032; 3,502 mi. 18-ft. asphaltic concrete, \$61,749.

In Grundy County, from Spickard north, B. Layton, Kirksville; 1,411 mi. earthwork; 1,411 mi. 9-ft. concrete, \$11,527; Jasper County, from Asbury to Joplin, Independent Construction Co., Pittsburgh, Kansas; 2,633 mi. earthwork, \$14,692; 2,633 mi. 18-ft. concrete pavement, \$50,049; from Carthage east, A. G. Sherwood, Independence, Kansas; 4,794 mi. earthwork, \$6211; 4,794 mi. 18-ft. concrete surface, \$72,896; 3,488 mi. earthwork, \$11,414; 3,488 mi. 18-ft. concrete surface, \$57,097; Lafayette County, from Levacy to Wellington, A. A. Davis and E. S. Wells, Oklahoma City; 2,278 mi. earthwork, \$26,270; 2,278 mi. 18-ft. concrete surface; Lincoln County, 4,102 mi. 16-ft. gravel surface, from Winfield to Old Monroe, Newton Construction Co., Columbia, \$45,458.

In Mercer County, from Princeton north, B. Layton, Kirksville; 2,190 mi. earthwork, \$7296; 2,190 mi. 9-ft. concrete surface, \$17,926; 4,606 mi. earthwork; 4,606 mi. 9-ft. concrete surface, \$37,696; 3,780 mi. earthwork, \$6050; 3,780 mi. 9-ft. concrete surface, \$30,738; New Madrid County, from Risco east, C. J. Oglesby, Memphis, Tenn.; 3,182 mi. earthwork, \$13,373; 3,182 mi. 9-ft. concrete and 7-ft. gravel surface, \$57,390; 3,056 mi. 9-ft. concrete and 7-ft. gravel surface, \$50,472; 3,056 mi. earthwork, \$10,110; Platte County, from Leavenworth to Tracey, Albert Hood, Independence, Kansas; 2,860 mi. 30-ft. graded earth, \$14,549; 3,824 mi. 30-ft. graded earth, \$41,459.

In Randolph County, from Moberly to Cairo, Lynch, McDonald, Moberly 4,985 mi. earthwork, \$6793; 4,985 mi. 9-ft. brick surface, concrete base, \$77,091; from Cairo to Jacksonville; 4,994 mi. earthwork, \$17,783; 4,494 mi. 9-ft. brick surface, concrete base, \$69,587; from Jacksonville north and south; 2,525 mi. earthwork, \$11,905; 2,525 mi. 9-ft. brick surface, concrete base, \$35,324; Ripley County, from Doniphian to Poplar Bluff, 2,374 mi. 12-ft. gravel surface, Energy Coal & Supply Co., to T. S. Wright Lumber Co., Doniphian; \$16,514; 2,756 mi. 12-ft. graded surface, \$19,016; 1,405 mi. earthwork; 1,405 mi. 12-ft. gravel surface, \$8815; Texas County, 3,420 mi. 30-ft. graded earth, Stites, Cook & Miles, Crocker, \$21,600; Vernon County, from Nevada north, Independent Construction Co.; 4,015 mi. earthwork, \$15,385; 4,015 mi. 18-ft. concrete surface, \$63,300.

In Wright County, from Mansfield to Mt. Grove; 3,478 mi. 3-ft. graded earth, Stites, Cook & Miles, \$13,269; 3,471 mi. 30-ft. graded earth, Summerfield Jones Co., Billings; \$16,851; Barry County, .395 mi. 16-ft. gravel pavement, from Seligman north and south, M. E. Gillioz; Dallas County, 4,661 mi. 30-ft. graded earth, from Branch to Buffalo, M. E. Gillioz, \$32,815; Gasconade County, 2,070 mi. 16-ft. gravel pavement, from Mt. Sterling to Drake, Stoner & Deering, Chamoise, \$16,736; Jasper County, from Carthage east, A. G. Sherwood, Independence, Kansas; 3,488 mi. earthwork, \$14,764; 3,488 mi. 18-ft. concrete surface, \$56,518; from Asbury to Joplin, Independent Construction Co.; 4,729 mi. earthwork, \$28,126; 4,729 mi. 18-ft. concrete surface, \$78,714; .322 mi. 30-ft. graded earth, Kelly & Underwood, Granby, Mo.

Jefferson County, 186 mi. 30-ft. graded earth, from Festus south, Stoner & Deering, Chamoise; Lafayette County, from Wellington to Lexington, A. A. Davis and E. S. Wells; 3,594 mi. 18-ft. concrete, \$42,292; 3,594 mi. earthwork, \$27,340; from Levacy to Wellington, 4,167 mi. 18-ft. concrete, \$49,082; 4,167 mi. earthwork, \$42,540; Perry County, 4,068 mi. 16-ft. gravel from Longtown to Uniontown, Richmond Construction Co., Advance, \$27,729; St. Francois County, .185 mi. 30-ft. graded earth, from Flat River to Farmington, Stoner & Deering, Chamoise; St. Genevieve, 3,875 mi. 16-ft. gravel from St. Genevieve to St. Maries, Public Works Construc-

tion Co., St. Louis, \$105,959; Wright County, 3,653 mi. 30-ft. graded earth, from Mansfield to Mauntoun Grove, Summerfield Jones Co., \$25,763.*

Mo., Excelsior Springs—City, R. L. Simpson, City Mgr., let contract to Musselman & Hall, 1018 Wyandotte St., Kansas City, at \$2.95 per sq. yd., to surface 2 blocks on Marietta St. with vertical fibre brick, on sand cushion on old macadam base, asphalt filler.*

Mo., Webb City—City plans street paving connecting State Highway on east and west; voted \$40,000 bonds; L. O. Walker, Clk.*

Mo., Springfield—City let contract to Henry Proserpi to lay sidewalks on 4 streets; G. W. Culler, City Engr.

N. C., Asheville—See Land Development.

N. C., Charlotte—See Land Development.

Tenn., Centerville—Hickman County plans improving about 10 mi. road between Coble and Perry County line. Address County Comr.

N. C., Goldsboro—State Highway Comm., Raleigh, will let contract first part of May to hard surface 11 miles Wayne County link of Central Highway from Goldsboro to Johnson County line, estimated cost \$330,000.

N. C., Winston-Salem—State Highway Dept., Raleigh, will let contracts early in May to hard-surface 2 roads: From city limits to Guilford County line; from end of concrete pavement on Rural Hill road to Stokes County line, via Cherry St. extension; Alex. S. Hanes, State Highway Commr.

Okla., Centralia—City contemplates additional paving; Benham Engineering Co., Consult. Engr., Kansas City, Mo.

Okla., McAlester—Pittsburg County Comr. plan paving with brick road from McAlester to county line near Stuart.

Okla., Mangum—City plans street paving in residence section; Benham Engineering Co., Consult. Engrs., 512 Gumble Bldg., Kansas City.

Okla., Picher—City will let contract soon to pave 2 blocks on E. 2d St.; plans paving various streets in business section. Address City Clk.

Okla., Waurika—Jefferson County Comr. plan hard surfacing Meridian Highway from north line of county to Red River; contemplates voting bonds.

S. C., Beaufort—Carteret County Comr. plan hard surfaced roads in various sections of county, contemplates \$700,000 bond issue.

S. C., Rock Hill—City receives bids April 29 to pave 3700 ft. on Oakland Ave. in front of and around Winthrop College. Address City Clk.

S. C., York—York County Permanent Road Comm. receives bids May 6 to grade, drain and pave 2 sections of roads, totaling 13.17 mi.: 6.53 mi. York to Survey Sta., 374; 20,000 cu. yd. common rock excavation, 4500 lbs. reinforcing steel in bridge beams and slab, 68,425 sq. yd. plain concrete or cement concrete base, and 62,500 sq. yd. bituminous concrete surface; 6.65 mi. from Survey Sta. 374 to Rock Hill, 19,000 cu. yd. common excavation, 69,725 sq. yd. plain concrete, or plain cement concrete base, and 63,725 sq. yd. bituminous concrete or sheet asphalt surface course; plans on file and from Lee, Murray, Palmer & Brown, York, and State Highway Engr., Columbia.*

Tenn., Blountville—Sullivan County plans the building and rebuilding of 17 mi. road from Scott County, Va., line via Kingsport to Washington County, Tenn., line, near Fall Branch to connect with road from Jonesboro, under construction, \$17,000 appropriated; estimated cost \$34,000. Address County Comr.

Tenn., Cleveland—City, G. K. Hardwick, Jr., Mayor, plans paving street to connect with new highway, under construction, to western limits of city; will sell bonds.

Tenn., Dover—Stewart County and Dept. of Highways and Public Works, Nashville, plan state road between Dover and Clarksville.

Tenn., Memphis—City Comr. let contract to Estes-Williams-Ragsdale Co., Madison Ave. Bldg., at \$20,700, for concrete culvert in Gavoso Bayou, from Jackson to Overton Ave.

Tenn., Nashville—Board of Public Works receives bids April 24 to open, widen, extend and pave Tenth St. between Demonbreun and McGavock, and between McGavock and Broadway; Hilary E. Howse, Mayor; S. H. McKay, City Clk.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Manufacturers Record

Tenn., Nashville—Board of Public Works plans paving with asphalt Wilburn St. and Eighteenth Ave.; H. E. Howse, Mayor.

Tenn., North Chattanooga Sta., Chattanooga—Dept. of Highways and Public Works, Nashville, receives bids in May to build Cherokee Blvd. in North Chattanooga.

Tenn., Selmer—McNairy County Court plans road building; voted \$200,000 bonds. Address County Comr.

Tex., Anson—State Highway Dept., Austin, approved plans to grade and bridge 15.27 mi. State Highway No. 30, Jones County, from Shackelford County line to Stamford; approximate cost \$73,000; J. W. Puckett, County Engr., Navasota; Owen Thomas, County Judge, Anson.

Tex., Anson—Jones County plans grading and bridges on 2 roads: 20 mi. State Highway No. 93, from Stanford to Hamlin, estimated cost \$41,050; 11.5 mi. State Highway No. 30, Stamford-Abilene, from Stamford to point 5 mi. north of Anson; also one 20-ft. span bridge, approximate cost \$34,000; J. W. Puckett, Engr., Owen Thomas, County Judge.

Tex., Austin—Travis County received low bids for 2 roads: grade 5.6 mi. Little road, J. R. Hawkins & Son, Georgetown; construct drainage structures on 6.2 mi. Pearce Lane, Knox T. Johnson, 407 E. Eighth St., Austin, \$9491.*

Tex., Beaumont—City, Ollie J. Boyd, City Mgr., plans paving 7 streets, including Magnolia, Railroad, Neches.

Tex., Belleville—Austin County plans grading and bridge 16.9 mi. State Highway No. 36, Belleville Road Dist., from Washington County line through Belleville to Mill Creek, estimated cost \$120,000; Herbert Schroeter, Engr., Walls; W. I. Hill, County Judge, Belleville.

Tex., Breckenridge—Stephens County received bids May 9 for 4 roads: 15.5 mi. grading, drainage structures and hard surfacing, from Caddo on Caddo-Granger road; 16.8 mi. drainage structures and hard surfacing on Breckenridge-Throckmorton road; 1.25 mi. grading, drainage structures and hard surfacing on Parks road from Eastland and Breckenridge east; Warrenite, bitulithic, Amnesite, Uvalde rock asphalt and Willite; 13 mi. grading, drainage structures and graveling on Eolian road from Breckenridge and Eastland west; plans from V. H. Moore, County Judge; John W. Hill, County Judge.

Tex., Brenham—Washington County, J. H. Chappell, County Judge, receives bids May 14 to grade and construct drainage structures on 12 mi. Independence road, 117,144 cu. yd. earth roadway, unclassified roadway, borrow and ditching excavation, 152,598 lbs. reinforcing steel; plans from G. A. Bracher, County Engr.

Tex., Childress—City plans street improvement; votes May 12 on \$65,000 bonds; Will P. Jones, Mayor.*

Tex., Cleburne—City will receive bids soon to pave Prairie Ave., Featherstone, W. Henderson and N. Willhite; estimated cost \$60,000. Address City Sec.

Tex., Cleburne—Johnson County, O. B. McPherson, County Judge, will receive bids soon for 1-in. inverted penetration bituminous topping on State Highway No. 2-A, Cleburne to Hill County line, estimated cost \$57,500; R. E. Keller, Res. Engr.; G. W. Courier, Consil. Engr., Palo Pinto.

Tex., Crockett—Houston County plans 6.75 mi. State Highway No. 19, from Crockett to east line Road Dist. No. 3, estimated cost \$33,000; F. J. Von Zuben, County Engr.; L. L. Moore, County Judge.

Tex., Dallas—R. A. Wylie, Street Comr., interested in improvements in South Dallas: Open DeSoto and Masonic St.; widen Marion.

Tex., Galveston—City Comr., plan grade raising in west end; votes May 12 on \$200,000 bonds.*

Tex., Graham—Young County plans road building; votes Apr. 25 on \$110,000 5½% Road Dist. No. 2 bonds. Address County Comr.

Tex., Houston—City, Wm. A. Moore, Sec., plans improvements, voted \$1,550,000 bonds: \$500,000, roadway to turning basin; \$750,000, street paving; \$300,000, macadam paving.*

Tex., Houston—City, O. F. Holcombe, Mayor, will receive bids soon for 2-in. bituminous, 22-ft. road on 19th St. from Heights Blvd. to Railroad Ave., and 20-ft. esplanade between.

Tex., Kerrville—City is receiving bids to pave 2400 ft. on Main St., about 11,276 sq. yd. limestone rock asphalt, 2800 ft. stone curb; S. K. Mason, City Engr.

Tex., Kerrville—See Land Development.

Tex., Lefors—Gray County plans building road south from Miami to McLean. Address County Comms.

Tex., Montague—Montague County, Nocona, Bonita and Belcherville Dists. plan improving State Highway No. 5, voted \$65,000 bonds. Address County Comms.

Tex., Palestine—Anderson County received low bids for 10.75 mi. grading and bridges. State Highway No. 43, between Palestine and Naches, Tibbets Construction Co., Fort Worth, \$102,329; plans bridges over 20-ft. spans; Ed. Davis, County Engr.*

Tex., Park Place—Town plans street paving, gravel surfacing on Park Place Blvd., Galveston Road to city limits, and inverted penetration top on other streets; voted \$85,000 bonds; Geo. L. Charlton, Mayor; E. G. Sloan, Engr., 505 Stewart Bldg., Houston.

Tex., Richmond—Fort Bend County Comms. plan hard surfacing Highways 3, 12 and 36; plans voting May 30 on \$435,000 bonds.*

Tex., San Diego—Duval County plans 3.98 mi. State Highway No. 12-A, from Jim Hogg County line to Webb County line; F. E. Hess, Engr., Floresville; G. A. Parr, County Judge.

Tex., Smithville—City receives bids April 25 for 8000 sq. yd. surfacing; Clifton Rice, City Engr.

Tex., Sweetwater—Nolan County receives bids May 9 to grade, bridge and bituminous top 7.6 mi. State Highway No. 70, south from Sweetwater; John A. Footh, County Engr.; A. S. Mauzey, County Judge.

Tex., Waco—City, E. E. McAdams, Mgr., plans opening 7th St. from Washington to Austin; voted \$150,000 bonds; V. G. Koch, City Engr.*

Tex., Waco—City, E. E. McAdams, Mgr., plans street improvement; votes May 16 on \$250,000 bonds.*

Tex., Waco—City, E. E. McAdams, Mgr., will receive bids soon to pave Columbus Ave. from Fifth to Sixth St.

Tex., Waxahachie—Ellis County Comms. receive bids May 12 to grade and construct drainage structure on 2 sections State Highway No. 34: Sec. B, 5.89 mi., 69,393 cu. yd. earth roadway, solid rock and borrow excavation, 54,302 lbs. reinforcing steel; Sec. D, 4.83 mi., 32,575 cu. yd. earth roadway, solid rock and borrow excavation, 119,986 lbs. reinforcing steel; plans from W. A. Spalding, County Engr., and State Highway Dept., Austin; H. R. Stovall, County Judge.

Va., Bland—Bland County Board of Supervs., Seddon, Rocky Gap and Mechanicsburg Dists., plan highway between Bland Courthouse and Rocky Gap; contemplate \$150,000 bond election.*

Va., Bluefield—Ford & Harvey, contractors, Lynchburg, let contract to Economy House & Material Co., Roanoke St., Bluefield, at \$50,000 for about 100 cars cement for street paving.

Va., Lawrenceville—City, G. W. Wesson, Mayor, let contract to Appomattox Construction Co., Appomattox, at about \$8000 for 2 mi. sidewalks.*

Va., Princess Anne—Princess Anne County, Kempsville Dist., plans 3 roads, including bridge: 7 mi. Water-works road to Lynnhaven Inlet with bridge over Lynnhaven Inlet; 9 mi. from Indian River road through Kempsville to Virginia Beach Blvd., at Euclid; 1.8 mi. road at Glen Rock; will vote soon on \$250,000 bonds. Address County Comms.

Va., Roanoke—City plans penetration macadam surface on Bellview road from Wellington Ave. to Roanoke Hospital grounds; also curbing along driveway. Address City Clk.

Va., Wytheville—Wythe County Board of Supervs. plans laying waterbound macadam surface on road from Crockett to Groseclose's Mill.

West Virginia—State Road Comn., Charleston, let contracts for 4 roads: Tucker County, Project 3175-A, Keeley Construction Co., Empire Bldg., Clarksburg, \$49,663; Jackson County, grade 7.1 mi., Bosco & Ritchie, Ravenswood, \$144,599; Calhoun County, grade 1.46 mi., Hardaman & McGowen, Spencer, \$22,734; Calhoun County, 7.5 mi. grading, Cavin & Powers, Charleston, \$101,509.*

W. Va., Clarksburg—City plans widening West Pike St. and paving 2 streets in Montpelier Addition. Address City Clk.

W. Va., Fayetteville—Fayette County Court receives bids May 15 to pave with bituminous macadam 8 mi. Kincaid to Kings-ton road, Kanawha Dist.; plans from County Road Engineer; Thos. Boone, Clk.

W. Va., Huntington—See Bridges, Culverts, and Viaducts.

W. Va., Huntington—City Comn. let contracts at \$63,269 to pave with brick 6 streets, alleys and roads: Harrison & Dean, Karr & Shuit, George Henkle, 1736 6th Ave., J. S. Griffith.*

W. Va., Huntington—Ridgewood Land Co., 416 Fourteenth St., receives bids May 11 to grade, drain and pave courts, places and drives in Ridgewood Subdivision. 4500 sq. yd. paving, 2,635 lin. ft. alley curb, inlets; plans on file; G. C. Christian, Engr.

W. Va., Huntington—Chamber of Commerce, G. A. Nortchot, Pres., interested in scenic boulevard on proposed concrete wall, along Ohio River from W. Fourteenth St. to mouth of Guyan River, wall to be used as flood wall.

W. Va., Lewisburg—Greenbrier County Court let contract to Billitic & Oliver Bros., Cincinnati, at \$77,460 for 5 mi. penetration macadam Laurel Creek-Quinwood road.*

W. Va., Pineville—Wyoming County plans hard surfaced road from Pineville to McDowell County line; voted \$121,000 bonds. Address County Comms.

W. Va., Summersville—Nicholas County plans hard surfacing all state roads; plans \$1,000,000 bond election. Address County Comms.

W. Va., Wheeling—City let contract to H. L. Seabright, at \$24,803, to pave Main St. between Twelfth and Tenth Sts. Address City Mgr. Butts.

Sewer Construction

Ala., Florence—City considering construction of storm and sanitary sewers. Address the Mayor.

Ala., Montgomery—City will construct storm and sanitary sewer; cost \$150,000. Address the Mayor.

Ala., Sheffield—See Road and Street Construction.

Ark., Magnolia—Board of Water Comms. receives bids May 12 for furnishing all material for extension of water mains. (See Machinery Wanted—Water Mains.)

D. C., Washington—District Comms., Room 509, receives bids April 24 for constructing 7760 ft. of sewer between 24 in. and 10 in. in diam.

Fla., Arcadia—See Road and Street Construction.

Fla., Bushnell—See Water Works.

Fla., Bushnell—See Land Development.

Fla., Crystal River—See Water Works.

Fla., Davenport—City let contract to Lead Construction Co., Tampa, for 5 miles of storm sewers; E. V. Camp and Associates, Engrs., Moreland and De Kalb Ave., Atlanta, Ga.

Fla., Fort Pierce—See Land Development.

Fla., Gainesville—City will construct addition to sanitary sewer and erect disposal plant; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta, Ga.*

Fla., Haines City—See Land Development.

Fla., Jacksonville—See Land Development.

Fla., Ocala—See Land Development.

Fla., Orlando—See Land Development.

Fla., Sanford—See Land Development.

Fla., St. Petersburg—See Land Development.

Fla., Dalton—City is having plans prepared by E. V. Camp and Associates, Constl. Engrs., Moreland and DeKalb Aves., Atlanta, for sewer improvements.*

Fla., Fort Valley—City voted bonds for sewer extension. Address the Mayor.

Fla., Thomasville—See Land Development.

Ky., Louisville—City, Matt H. Crawford, Comr., Sewerage, opens bids May 8 for constructing 38th St.-Duncan St. district sewer; J. B. F. Breed, City Engr. (See Machinery Wanted—Sewer Construction.)

La., Jackson—See Water Works.

Md., Baltimore—Board of Awards, F. A. Dolfeld, Register, receives bids April 29 for storm drains and sanitary sewers in Sewer Dist. H-9; also Storm Water Contract No. 85. (See Machinery Wanted—Sewer Construction.)

Md., Catonsville—Sees Land Development.

Miss., Jackson—See Water Works.

N. C., Asheville—See Land Development.

N. C., Apex—See Water Works.

N. C., Charlotte—See Land Development.

N. C., Mount Holly—City, O. L. Hoffman, Mayor, receives bids April 30 for sewage improvements. (See Machinery Wanted—Sewage Improvements.)

Okl., Elk City—See Water Works.

Ola., Mangum—City contemplates installing storm sewers; Benham Engineering Co., Consult. Engrs., 512 Gumble Bldg., Kansas City, Mo.

S. C., Liberty—City voted \$50,000 bonds. Address City Clk.

Tenn., Knoxville—City, Louis Brownlow, Mgr., will probably extend sewer system to Lonsdale, cost \$75,000.

Tex., Austin—City, W. D. Yett, Mayor, contemplates voting on \$100,000 sewer bonds.

Tex., Dallas—City, Harry Gowins, Water Comms., approved plans for construction of \$70,000 sewage pumping station, also for South Dallas sanitary sewer main, cost \$160,000.*

Tex., Flatonia—See Water Works.

Tex., Houston—See Water Works.

Tex., Kerrville—See Land Development.

Tex., Park Place—City, Geo. L. Charlton, Mayor, voted \$15,000 sanitary sewer bonds; E. G. Sloan, Engr., 505 Stewart Bldg., Houston, Tex.

Tex., Wichita Falls—City contemplates construction of \$175,000 sewage disposal plant; may vote on bonds. Address The Mayor.

Va., Portsmouth—City Council authorized expenditure of \$180,000 for sewers, \$30,000 for incinerator. Address The Mayor.

Va., Portsmouth—City received low bid from J. E. and G. W. Bryan, Commercial Bldg., Portsmouth, for construction of 40 miles of sewers in Sixth, Seventh and Ninth Wards; cost \$320,000.*

W. Va., Wheeling—City Mgr. Butts will soon call for bids for sewers at Clator and Chantal Sts.

Telephone Systems

Fla., Bradenton—Peninsular Telephone Co., W. U. Lathrop, Mgr., have acquired site on Park St., will erect 3 or 4-story, fireproof building, install automatic telephone equipment; let contract for equipment; will be unit system supplying 4000 telephones.*

Fla., Dade City—The Pasco County Telephone Co. let contract for erection of building, containing central office, and store rooms; system rebuilt; metallic circuits will take place of grounded lines, install motors, switchboard, etc.

Fla., St. Petersburg—See Land Development.

Md., Baltimore—Chesapeake & Potomac Telephone Co., Geo. H. Warren, Div. Engr., 5 Light St., will enlarge the Wolfe exchange, building additional floor; estimated cost \$88,300, which is part of \$2,000,000 expansion and service program, as previously noted.*

Miss., Jackson—The Cumberland Telephone Co. let contract to Western Electric Co., New York, for installation of additional exchange equipment.*

W. Va., Huntington—Chesapeake and Potomac Telephone Co. is completing lately noted improvements; expenditure now approved brings amount to a total of \$1,693,000, including purchase of site and erection of new fireproof building; installation of step-by-step machine switching central office equipment; new No. 1 toll switchboard equipment; underground conduit and cable; new sub-station and private branch exchange equipment.*

Textile Mills

Ga., Dalton—Boylston-Crown Mills let contract to Gallivan Building Co., Greenville, S. C., for erection of addition; 125x200 ft.; 2 stories; steel and brick construction; Robert & Co., Engrs., Atlanta.*

N. C., Hickory—Hickory Hosiery Mills, increased capital \$100,000 to \$200,000.

N. C., Raleigh—State Prison, Geo. Ross, Pou, Supt., interested in installing small knitting mill for manufacturing socks in State Prison, Insane Hospital and other State institutions. (See Machinery Wanted)—Knitting Machines,

N. C., Charlotte—New England Waste Co., 549 Atlantic Ave., Boston, Mass. (Southern office 5 S. Church St.), reported to have acquired 30 acres on Salisbury Rd. as site for plant.

Okl., Ardmore—George Beveridge, Pres., Banning Cotton Mills, Banning, Ga., reported interested in establishment of textile mill.

S. C., Greenville—Southern Franklin Process Co., National Highway, B. S. Pretts-place, Gen. Mgr., reported to construct \$40,000 addition to plant.

Tenn., Chattanooga—National Yarn and

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Processing Co., capital \$650,000, incorporated; W. G. Thomas, Look-Out-Mountain; T. H. McKenney.

Tenn., Chattanooga—National Yarn and Processing Co., capital \$650,000, incorporated; W. G. Thomas, Look-Out Mountain; T. H. McKenney; let contract to Mark K. Wilson, Tennessee Electric Power Bldg., to erect main building for \$650,000 mercerizing plant; has 2-story building to be used as part of plant.

Water Works

Ala., Huntsville—West Huntsville Water Pipe Co., T. W. Pratt, will expend \$10,000 for extension, 6-in. cast iron pipe.

Ark., Magnolia—Board of Comms., Sewer Improvement District No. 1, receives bids May 12 for sewer system. (See Machinery Wanted—Sewer Systems.)

Fla., Arcadia—See Road and Street Construction.

Fla., Bartow—City plans water and light improvements; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta, Ga.*

Fla., Bradenton—City will soon call for bids for water works improvements; including wells, pumping plant, concrete storage reservoir; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta, Ga.

Fla., Bushnell—City will install water and sewer system; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta, Ga.

Fla., Bushnell—See Land Development.

Fla., Crystal River—Town will construct water works and sewer system; E. V. Camp and Associates Engrs., Moreland and DeKalb Aves., Atlanta, Ga.

Fla., Dunedin—City will extend water works and mains, install white-way lighting along City Park and various streets, and improving park; Robt. F. Smallwood, Landscape Engr.

Fla., Fort Pierce—See Land Development.

Fla., Gainesville—See Land Development.

Fla., Gainesville—City will erect addition to water works system; E. V. Camp and Associates, Engrs., Moreland and DeKalb Aves., Atlanta, Ga.*

Fla., Haines City—See Land Development.

Fla., Interlachen—See Land Development.

Fla., Jacksonville—See Land development.

Fla., Ocala—See Land Development.

Fla., Orlando—See Land Development.

Fla., Pensacola—Bureau Yards and Docks, Navy Dept., Washington, D. C., receives bids until May 27 for installation of water works for Naval Air Station.

Fla., Sanford—See Land Development.

Fla., Sebring—City will vote on \$2,500,000 bonds for water, electric lights, white-way system, parks, etc. Address The Mayor.

Fla., St. Petersburg—See Land Development.

Fla., Tampa—W. L. McNevin & Co., 505 Tampa St., developers of Virginia Park and Maryland Manors, let contract for water tower of 26,000-gal. capacity.

Ga., Atlanta—City Bond Commsn. recommended construction of additional lighting plant at Hamphill and River stations of water works; also construction of several small sewers.

Ga., Lagrange—City plans improvements to water works. Address City Clk.

Ga., Thomasville—See Land Development.

Ga., Macon—City will install boiler and pump at Riverside Station, approved site for erection of 2,500,000-gal. reservoir. Address Water Works Commr.

Ky., Marion—City will construct water works system, cost \$50,000. Address the Mayor.

Ky., Versailles—City let contract to Clark-Stewart Co. for erection of concrete water reservoir and to J. F. Shouse Co., Kentucky Bldg., Louisville, for installation of pumps, pumps.

La., Bossier City—City, G. B. Smith, Mayor, opens bids May 8 for water works system; E. T. Archer & Co., Engrs., City Bank Bldg., Shreveport.*

La., Jackson—East Louisiana Hospital, Dr. T. J. Perkins, Supt., will construct reservoir and gravity sewerage system. erage system.

Md., Catonsville—See Land Development.

Md., Salisbury—Water and Sewer Coms., Watson D. Mitchell, Sec., receives bids May

5 for constructing wells. (See Machinery Wanted—Water Wells.)

Miss., Jackson—City votes May 16 on \$400,000 bonds for improvements to water works, sanitary sewer system, etc. Address Mayor Scott.

Mo., Ash Grove—City voted \$50,000 water works bonds; Alexander Engineering Co., Woodruff Bldg., Springfield, Mo., Const. Engrs.

Mo., Sedalia—Public Service Coms., Jefferson City, approved \$900,000 issue by Sedalia Water Co.

N. C., Asheville—See Land Development.

N. C., Asheville—City let contract to Dempster Construction Co., Inc., 712 Walnut St., Knoxville, Tenn., for construction of impounding basin at Bee Tree; Chas. E. Waddell, Engr., 78 Patton Ave.*

N. C., Apex—Town Comms. let the following contracts for water and sewers: to Tucker & Laxton, Realty Bldg., Charlotte, for filter plant, exterior piping, erecting pumps, filter equipment, building dam, water pipe laying, sewer pipe laying; to Carolina Willys Light Co., Laurinburg, for transmission line to Morris Machine Works, Charlotte, for pumping equipment; to Chicago Bridge & Iron Works, 1045 Healey Bldg., Atlanta, Ga., for wash water tank and tank and tower; Grinnell Co., North Charlotte, for valves, hydrants, and furnishing cast iron pipe and specials for distribution system and pumping mains; to Pomona Terra Cotta Co., Pomona, for furnishing sewer pipe.*

N. C., Charlotte—See Land Development.

Okla., Altus—City appointed Benham Engineering Co., Kansas City, Mo., Constit. Engrs., to make investigation of available water supply.

Okla., Blanchard—City, A. J. Slack, Mayor, contemplates \$37,000 water works improvements; Gant-Baker Co., Inc., 1116 W. Main St., Engrs., Oklahoma City.

Okla., Eik City—City contemplates expending \$325,000 for water works and sewerage disposal plant and sanitary sewers; Benham Engineering Co., Const. Engrs., 512 Gumble Bldg., Kansas City, Mo.

Okla., Tonkawa—City let contract to Weland Construction Co., Oklahoma City, for water-works system; cost \$75,000; Ruckel Engineering Co., Engrs., Arkansas City, Kansas.*

Okla., Tulsa—City voted \$500,000 water bonds; A. J. Rudd, Commr.*

Tex., Big Springs—City voted \$30,000 water bonds; J. W. Middleton, Sec.*

Tex., Corpus Christi—City, J. T. Wright, Sec., plans expending \$100,000 in improvements to water works.

Tex., Flatonia—City voted \$70,000 bonds for water works and sewer system; Municipal Engineering Co., Engr., Praetorian Bldg., Dallas.*

Tex., Comanche—City will soon vote on \$50,000 bonds for water works improvements, Jno. B. Hawley, Engr., 403 Cotton Exchange Bldg., Fort Worth.*

Tex., Denton—City let contract to Pittsburgh-Des Moines Co., at \$17,000, for 250,000-gal. water tank erected on 100-ft. steel tower.*

Tex., Denton—City will soon vote on bonds for constructing water tank and tower; C. W. Stovall, Sec.

Tex., Houston—City voted \$750,000 water works, \$300,000 for parks, \$250,000 for subways, \$250,000 for sanitary sewers, \$350,000 storm sewers, \$75,000 incinerator; Wm. A. Moore, Sec.*

Tex., Kerrville—See Land Development.

Tex., Lamesa—City plans expenditure of \$35,000 for water and sewers. Address the Mayor.*

Tex., Littlefield—City, B. L. Coggill, Mayor, voted \$75,000 water works bonds.

Tex., Lockhart—City contemplates water works improvements, probably vote on bonds; Jno. B. Hawley, Engr., 403 Cotton Exchange Bldg., Fort Worth.

Tex., Port Lavaca—City, D. E. Guidry, Mayor, opens bid April 22 for water works system. (See Machinery Wanted—Water Works.)

Tex., San Angelo—City voted \$275,000 bonds for sewer and incinerator; E. F. Jackson, City Mgr.*

W. Va., Huntington—See Land Development.

Woodworking Plants

Ark., North Little Rock—Ayer & Lord Tle Co., A. W. Armstrong, Treas.-Mgr., Railway

Exchange Bldg., Chicago, Ill., advises: "We intend to rebuild plant as before, except that the buildings will be brick instead of concrete; also there will be some enlargement in our facilities; work under supervision of own department managers; is well under way and hope to resume operation of plant at an early date."

Fla., Avon Park—Avon Park Sash & Door Co., capital \$30,000, incorporated; A. C. Heacock, Pres.; W. T. Poland, Sec., both Sebring, Fla., have acquired 108x115x50-ft. site on Forest Ave.; will equip with most modern woodworking machinery, individual motor-driven; manufacture all kinds of mill work.

Fla., Hialeah—The Hialeah Woodworking Co., Inc., Eng. W. Pace, Pres., has acquired site on Railroad Ave. and 25th St.; will erect woodworking plant.

Miss., Natchez—The Wilson & Co. will rebuild burned box plant, install modern machinery, increasing capacity of former plant.

Mo., Kansas City—American Crossarm & Conduit Co., incorporated; W. M. Carpenter, Pres.; E. S. Hough, Sec., 3002 Spruce St.; manufacture telephone and telegraph equipment.

N. C., Denton—T. J. Finch of Thomasville and associates, reported, interested in converting plant of the former Denton Lumber Co. into box factory.

N. C., Greensboro—Carolina Body Co., High Point Road, capital \$250,000, incorporated; R. G. Vaughn, E. N. Snow.

N. C., High Point—The Tomlinson Chair Co., will erect \$10,000 factory on E. Commerce St.

N. C., Winston-Salem—George E. Nissen Co., incorporated; Thomas Maslin, W. R. Leak, 316 N. Broad St.

N. C., Spencer—Lin-Nock Furniture Co., capital \$50,000, incorporated; J. A. Lindsay, L. J. Peacock.

FIRE DAMAGE

Ala., Cantwell—Planer mill and lumber shed of Stark & Oldham.

Ala., Foley—The Miller-Brent Lumber Co.'s plant; loss \$30,000.

Ala., Hardaway—Manufacturing plant of the M. B. Veneer Co., Inc.; loss \$20,000.

Ala., Mobile—Warehouse building of Greer's Stores, Commerce and St. Francis Sts.; loss \$50,000.

Ala., Montgomery—Building at 39 Commerce St., occupied by Monarch Pool Room; loss \$20,000.

Ala., North Port—Mrs. Parker Hewitt's residence.

Ark., Brickeys—J. A. Kinard & Sons' store, E. Hope Brooks' store, Jim Applewhite's store, restaurant in building owned by Will Gullett, Presbyterian Church; loss \$75,000.

Ark., DeValls—Moving Picture theater operated by C. Rusom, Castleberry Hotel and Blankenship & Skard grocery store; loss \$20,000.

Ark., Huntsville—Restaurant in building owned by Nunnelley Estate, W. R. Goucher general merchandise store, City Hotel, Mrs. W. E. Acre, Propr.; total loss \$60,000.

Ark., Peace—Ray & Robinson's lumber yard and mill; loss \$17,500.

Ark., Pine Bluff—Residence on Creed-Taylor Plantation near Pine Bluff; W. W. Phillips, Plantation Agt.; loss \$10,000.

Ga., Americus—Dudley's Opera House.

Ky., Eminence—Eminence Milling Co.'s plant.

Ky., Paintsville—Arctic Ice & Storage Plant and 5 dwellings, owned by A. L. Jackson; loss \$35,000.

La., Covington—Fenwick Sanitarium; loss \$30,000. Address Dr. Fenwick Young.

La., Jennings—Rice warehouse, owned by Sidney Hoover, Jennings, Frank Millikin, Crowley and Judge A. P. Marbouget of Shreveport; loss \$50,000.

Md., Baltimore—Portion of plant of the National Bituminous Enamel & Paint Corp., Lawrence and Locust Sts.; loss \$30,000.

Md., Baltimore—Amusement structures at Frederick Road Park, owned by Philadelphia Toboggan Co., Philadelphia, Pa.; loss \$50,000; Cyril Bond, Mgr.

Md., Glyndon—Sudbrook Park Inn near Glyndon; address the Proprietor.

Md., Clear Spring—Dr. H. C. Foster's residence.

Miss., Laurel—M. L. Raynor Brick & Tile Co.'s brick and tile plant.

Miss., Lucedale—Marshall J. W. Passon's residence, owned by S. J. Cotton, New Orleans, La.

Miss., Sturgis—Dry goods stores of Frazier, Hart, Farrell, Quinn, Livingston and Foster; drug store, 2 restaurants and garage; loss \$100,000.

Mo., East Prairie—High School building, loss \$60,000. Address Herbert Goza, Supt. School Board.

N. C., Gastonia—Grocery store owned and operated by R. Lee Armstrong, 3 mill houses owned by Groves Mills, Inc.; loss \$10,000.

N. C., Greensboro—A. K. Moore's warehouse, Madison Ave.; Vick Chemical Co.'s warehouse leased to Paul N. Howard, Contr.

N. C., Rutherfordton—The Southern Veneer Co.'s plant; loss \$9000.

Okla., Durant—J. B. Raines' residence, Normal Blvd.; loss \$9000.

S. C., Bamberg—M. N. Rice's residence, S. of Bamberg; loss \$12,500.

S. C., Orangeburg—The Bamberg Co.'s plant.

S. C., Trough—Bonner Bros.'s store; loss \$20,000.

Tenn., Chattanooga—W. B. Lowe's filling station and garage and adjoining buildings on Rossville Blvd. at 37th St.; loss \$15,000.

Tenn., Etowah—W. J. Bandy's garage on Fifth St. and adjoining building.

Tenn., Como—Stores of C. H. Tansil, Chandler & Son, Mrs. Speight; garages, Davis & Akers and Oscar Paschall; Nicholls Blacksmith Shop; Odd Fellows Hall; residences, W. A. Lovelace, W. E. Simmons, O. W. Beard and John Dunlap; loss \$30,000 to \$40,000.

Tenn., Junction—J. W. Rattere & Son, dry goods; Oce Alexander, grocery; Lowrey Brothers, meat market; Junction City Telephone Co.; loss \$25,000.

Tenn., Rossville—Filling station, barber

shop, paint shop, 2 dwellings and garage, owned by W. B. Lowe; loss \$15,000.

Tex., Dallas—Warehouse plant of Oriental Oil Co., Wilson Bldg.; loss \$75,000.

Tex., Gainesville—Buildings owned by John Cunningham housing theater, business offices, meat market and garage; loss \$35,000.

Tex., Goodrich—Levy Galloway's filling station and garage.

Tex., Hamilton—Dwelling owned by Henry Scott, occupied by T. Lovelace.

Tex., Longview—Held Brothers' warehouse; loss \$50,000.

Tex., Mildred—Warehouse of Hercules Supply Co.

Tex., Fort Sam Houston (Station San Antonio)—Red Cross Bldg., S. A. Shaw, Field Director, American Red Cross, Post hospital exchange and enlisted men's barracks; loss \$25,000.

Tex., Waxahachie—Claude Taylor's residence, 108 Farley St.

Va., Eagle Rock—C. E. Smith's residence near Eagle Rock.

Va., Norfolk—E. J. Horner's residence, Euclid Station, Virginia Beach Blvd.

Va., South Boston—Mr. Myers' residence near Nathalie, owned by C. C. Bass, South Boston; loss \$10,000.

Va., Windsor—Joyner grocery and Bailey hardware stores, C. W. Bailey's undertaking parlors, Johnson confectionery, Fulgham's garage; loss \$35,000.

Va., Grafton—Royal Window Glass Co.'s plant in East Grafton; loss \$365,000.

Va., Matewan—Thurman-Chambers Hardware and Furniture Co. and other buildings; loss \$175,000.

Va., Shepherdstown—Apple Products Co. buildings; E. Lee Goldsborough, Pres.

Tex., Denison—Crystal Ice Co.'s cooling plant under construction, buildings of Lynch Davidson Lumber Co. and other structures; estimated loss \$20,000.

Tex., Mercedes—Benevolent Protective Order of Elks, H. T. Hoyt, Exalted Ruler, plans to erect \$50,000 lodge building; 2 stories, basement and roof garden, 50x90 ft.; Harry L. Stebbins, Archt., Weslaco; financing.*

Tex., Orange—Madison Lodge No. 126, A. F. & A. M., D. A. Pruter, Chmn. Bldg. Comm., rejected bids for \$60,000 brick, stone and concrete temple; will call new bids after April 25; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio.*

Tex., Temple—Ancient Free and Accepted Masons receive bids May 1 for face brick, tile and reinforced concrete temple; cost \$50,000; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio.*

Tex., Waco—Karem Shrine Temple, A. A. O. N. M. S., Box 1515, plans to erect \$300,000 to \$400,000 temple, Seventh and Washington Sts.; probably reinforced concrete, steel and brick with tile roof; 4 or 5 stories, concrete, hardwood and tile floors, interior tile, metal doors, vaults, vault lights, ventilators, ornamental terra cotta, rolling partitions, steel sash and trim, wire glass, 1 freight and 2 passenger elevators.*

Tex., Waxahachie—Waxahachie Klan No. 256, Knights of Ku Klux Klan, considers erecting klavern.

W. Va., Bluefield—Bluefield Lodge No. 269, B. P. O. E., W. M. Keister, Exalted Ruler, will consider tentative plans at regular meeting June 3 for lodge building, Scott St.*

Bank and Office

Fla., Leesburg—Leesburg State Bank will erect 4-story and basement building, Main and Sixth Sts.

Fla., Stuart—G. W. Bingham, West Palm Beach, reported contemplating erecting office building.

Fla., St. Petersburg—Central National Bank & Trust Co., T. A. Chancellor, Pres., will remodel section of present building for additional banking quarters.

Fla., St. Petersburg—First National Bank & Trust Co., T. A. Chancellor, Pres., will add 4 stories to present structure, Central Ave. and Fifth St.; also considering erection of building on adjoining 80x100-ft. site.

Okla., Oklahoma City—Oklahoma Savings & Loan Assn., J. R. Jones, Sec.-Treas., will erect \$300,000 fireproof bank and office building, Second St. and Robinson Ave.; reinforced concrete, 2 to 5 stories, 50x140 ft., concrete floors and foundations, hollow and interior tile, metal doors, vaults, mail chutes, vault lights, ventilators, wire glass; Hawk & Parr, Archts., Cotton Exchange Bldg.; starting plans.*

Md., Baltimore—Thos. Soriero, New York, and Geo. W. Funk, care Funk & Wilcox, Archts., 26 Pemberton Square, Boston, Mass., reported members of syndicate to erect motion picture theater, store and office building, 311 N. Howard St.; cost \$1,000,000 to \$1,500,000; site 60x167 ft.

N. C., Charlotte—Dr. Robt. F. Ferguson, Professional Bldg., will erect office building, 400 block S. Tryon St.; 2 or 3 stories, 20x140 ft.; work will probably start within 30 days.

N. C., Raleigh—Dixie Credit Co., Sir Walter Bldg., C. H. Rawls, Pres., will erect office building, Fayetteville and Salisbury Sts.; 38x210 ft.

S. C., Florence—Phillip H. Arrowsmith and associates plan to establish bank with \$125,000 capital; erect building.

Tex., Fort Worth—Fort Worth Grain & Cotton Exchange, N. P. Anderson Bldg., G. E. Cranz, Pres., will select site for \$500,000 building.

Tex., Mart—First National Bank receives bids May 4 for remodeling 2-story brick building; separate bids on general, wiring, plumbing, heating and bank fixtures; 2 stories, 23x100 ft., tile and linoleum floors, steel windows, hot air circulating heat, conduit system, electric wiring, lavatory; plans from Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio.*

W. Va., Pennsboro—Citizens National Bank plans to erect brick addition.

Churches

Ala., Birmingham—St. Mary's on the Highlands P. E. Church, Rev. Oscar de Wolf Randolph, Rector, will erect \$60,000 parish house, 1912 12th Ave.; 1 and 3 stories, stone, face brick and hollow tile, roof garden; 65x38-ft., auditorium, gymnasium, shower and locker rooms.

Ala., Birmingham—Men's Bible Class of First Methodist Church, J. C. Adolphus, Chmn. Bldg. Comm., plans to erect class au-

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ala., Huntsville—Lincoln Mills of Alabama, T. King, Pres., will erect Y. M. C. A. (See Buildings Proposed—Churches.)

Ark., Jonesboro—Ancient Free and Accepted Masons plan to erect temple.

Ga., Midville—Knights of Pythias will erect lodge and store building; W. W. Simmons, Archt.; receiving bids.

Ga., Valdosta—Valdosta Post, American Legion, will erect building.

La., New Orleans—Loyal Order of Moose, John Harrison, Sec., will remodel and enlarge Moose Home, Canal St.; Sam Stone, Jr., Archt., 714 Union St.; general contract includes all work except structural steel, heating, plumbing, ventilation, oil-burning equipment, electrical work, elevators, mail chutes, vault door and equipment; following contractors estimating: R. P. Farnsworth Co., Canal-Commercial Bldg.; Geo. J. Glover Co., Inc., Whitney Bldg.; O. M. Gwin Construction Co., 832 Common St.; J. V. & R. T. Burkes, Carondelet Bldg.; John Riess, Carondelet Bldg.; W. Horace Williams Co., 816 Howard Ave.; Lionel F. Favret, Louisiana Bldg., all New Orleans; Geo. A. Fuller Co., Fuller Bldg., New York; John T. Wilson Co., Inc., Mutual Bldg., Richmond, Va.; Stewart-McGehee Construction Co., Kohn Bldg., Little Rock, Ark.; Acme Construction Co., 2120 Laurence Ave., Chicago, Ill.; Central Construction Co., Ardiz Bldg., Shreveport, La.; Jas. Stewart & Co., Inc., 408 Pine St.; Selden-Breck Construction Co., Fullerton Bldg.; John J. Clark Construction Co., Arcade Bldg., all St. Louis, Mo.; Foundation Co., 101 Marietta St., Atlanta, Ga.*

Md., Baltimore—Independent Order of Foresters plan to erect \$300,000 lodge building;

3 stories and basement, fireproof, about 9000 sq. ft. ground area; auditorium to seat 1200, lodge rooms, baths, pool, bowling alleys, etc.

Md., Baltimore—Grand Lodge of Maryland, K. of P., 129 N. Gay St., Richard Laws Lee, Chmn. Bldg. Comm., will erect \$400,000 to \$500,000 Python Castle, Charles and Preston Sts.; site 82x150 ft.; structure 4 stories; stores on first floor, hall and dining room on second, lodge rooms above; Clyde N. & Nelson Friz, Archts., Lexington Bldg.*

Miss., Tupelo—Ancient Free and Accepted Masons, Philip Nanney, Chmn. Bldg. Comm., let contract at \$12,500 to J. A. Puckett and J. K. Angle to rebuild burned temple.*

Mo., St. Louis—Young Men's Christian Assn. General Bldg. Comm., F. W. A. Vesper, Chmn., selected Study & Farrar, Arcade Bldg., as architects for \$175,000 Carondelet Branch, Loughborough and Vermont Ave., in connection with \$3,000,000 development program; R. W. Erwin, 6626 Vermont St., Chmn., Carondelet Branch Bldg. Comm.*

Tenn., Athens—Ancient Free and Accepted Masons will erect \$35,000 temple, N. Jackson St.; steel, concrete and brick, 3 stories, steam heat, plate-glass front; stores on first floor; 11 offices on second; lodge rooms on third; Manley, Young & Meyer, Archts., Knaffle Bldg., Knoxville.*

Tenn., Mart—First National Bank receives bids May 4 for remodeling 2-story brick building; separate bids on general, wiring, plumbing, heating and bank fixtures; 2 stories, 23x100 ft., tile and linoleum floors, steel windows, hot air circulating heat, conduit system, electric wiring, lavatory; plans from Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio.*

Tex., El Paso—Benevolent Protective Order of Elks, Tom Lea, member, Bldg. Comm., plans to erect building.

Tex., Fort Worth—Key of West Lodge No. 5 will erect \$16,000 lodge hall, Second and Crump Sts.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

ditorium adjoining Sunday school; cost \$80,000.

Ala., Edgewood—Edgewood Baptist Church, J. A. Coker, interested, organized and will erect building; Dr. W. O. Dawson, care Howard College, probable pastor.

Ala., Huntsville—Lincoln Mills of Alabama, T. King, Pres., will erect 2 churches and Y. M. C. A. building, Lincoln Village.

Fla., Jacksonville—Methodist Church plans to erect Sunday school addition. Address The Pastor.

Ala., Wylam (Station Ensley)—Methodist Episcopal Church, South, care W. J. Stacey, Wylam, will erect \$80,000 brick building, Eighth Ave., to replace burned structure; architect not selected; interior tile, metal ceilings, hardwood and concrete floors, plaster board, ornamental terra cotta, rolling partitions; main auditorium to seat 750; Sunday School accommodate 1000.*

Fla., Fort Lauderdale—All Saints P. E. Church, Rev. R. D. Tracy, Rector, plans to remodel and enlarge chapel.

Fla., Miami—First Presbyterian Church, L. R. Bailey, Chmn. Bldg. Comm., plans to erect building; auditorium to seat 2000.

Fla., Miami Beach—Community Church, F. H. Henning, Chmn. Bldg. Comm., plans to erect \$50,000 building.

Fla., Miami—First Baptist Church reported to erect \$1,250,000 combined church and office building; 12 stories. Address The Pastor.

Fla., Ocala—First Baptist Church, Dr. C. L. Collins, Pastor, plans to erect building; cost probably \$100,000; Geo. McKay, Archt.*

Ky., Saint John—D. Harry Jamieson, Pauduc, has drawn plans for \$40,000 church.

Fla., Stuart—Mayor Stanley Ritchling is Chmn. of executive committee to erect Episcopal Church; Pfeiffer & O'Reilly, Archts., Lemon City and Stuart.

Fla., St. Petersburg—Westminster Presbyterian Church, Dr. D. B. Neely, Chmn. Bldg. Comm., selected Spencer & Phillips, Fidelity Bank Bldg., Memphis, Tenn., as architects for \$275,000 Gothic type church and parish house, 266 Mirror Lake Drive; latter to be erected first; Sunday school auditorium to seat 350 to 400; main auditorium to seat 1200 to 1500 later.*

Fla., Vero—Community Church will erect \$35,000 stucco building, Apache Ave. and 22nd St.; church auditorium to seat 570, community auditorium 500, kitchen.

Ga., Atlanta—Chas. H. Hopson, Archt., Healey Bldg., advises plans for \$100,000 first unit of \$300,000 First Christian Church are in hand of committee and are expected to be ready shortly; bidders not yet invited.*

Ga., Hartwell—First Baptist Church, Rev. W. A. Duncan, Pastor, having plans drawn by Herbert L. Cain, Grace Street Bank & Trust Co. Bldg., Richmond, Va., for \$75,000 brick building; 3 or 4 stories, about 70x125 ft., cement foundation; furnishings, equipment, etc., \$15,000.*

Ga., Savannah—Independent Presbyterian Church plans to erect Spanish type stucco building; Henrik Wallin, Archt., 23 Abercorn Street.

Ga., Savannah—Second Baptist Church, Rev. W. A. Tallieferro, Pastor, 120 E. 39th St., will erect \$200,000 building after plans by N. Sargent Hamilton, 2 Springdale Rd., Atlanta, and Henrik Wallin; probably cut stone.*

Ky., Ashland—St. Paul's Lutheran Church, Rev. Walter Stock, Pastor, 210 W. Carter Ave., has not selected architect for church, 17th St. and Central Ave.; cost about \$50,000, material not decided, 53x82.6 ft.*

La., Baton Rouge—First Presbyterian Church, Ben B. Taylor, Chmn. Bldg. Comm., receives bids April 28 for building; separate bids for heating, plumbing, electric wiring and art glass; cost \$150,000, steel skeleton, brick walls, cast stone or terra cotta trim, slate and composition roof, vapor system of heating; waterproofing, cement, finished and rubber floors, cast iron, Kalomein doors, roof ventilators; auditorium to seat 1000; Spencer & Phillips, Archts., Fidelity Bank Bldg., Memphis, Tenn.*

La., Collinston—E. Morris receives bids April 25 for frame church building; plans and specifications from Mr. Morris or J. W. Smith, Archt., Ouachita Bank Bldg., Monroe.

La., New Orleans—St. Mark's Baptist Church, 3219 S. Rampart St., will be ready for bids within few days for alterations and addition to building; 13x13 ft., hollow tile and stucco; Rathbone DeBuys, Archt., Hibernia Bldg.; J. G. Landry, M. E. Reilly and A. L. Thread, Asso. Archts., Hibernia Bldg.

Md., Annapolis—Presbyterian Church, Rev. Silas E. Persons, Pastor, will erect main auditorium, Sunday school and parsonage, auditorium, Sunday school and parsonage,

Gloucester and Conduit Sts.; cost \$150,000, Colonial type, brick, stone trim.

Md., Baltimore—First and St. Stephens Reformed Church will erect Romanesque type church and Sunday school building; cost \$150,000, stone, 120-ft. frontage, tower, main auditorium to accommodate 500; connected to parsonage by corridor; Clyde N. & Nelson Friz, Archt., Lexington Bldg.; about 2 months before plans are ready.

Mo., Independence—Reorganized Church of Jesus Christ of Latter Day Saints, Benj. R. McGuire, Presiding Bishop, plans to erect \$80,000 church auditorium.

N. C., Charlotte—Dilworth Methodist Church, G. O. Doggett, Chmn., Executive Comm., received bids April 21 for Tudor Gothic type main auditorium, East Boulevard Dilworth; cost \$150,000, auditorium and balcony to seat 1000; Sunday school and parsonage to be erected later; Marvin W. Helms and C. C. Hook, Asso. Archts., 338 S. Church Street.*

N. C., Fayetteville—First Baptist Church will remodel present structure and erect Sunday School building; Wilson, Berryman & Kennedy, Archts., Raleigh and Charlotte, N. C. and Columbia, S. C.

Okla., Terrell—First Baptist Church receives bids April 25 for brick building; plumbing, wiring and furnace heat in gen. contract; plans and specifications seen at First National Bank.

S. C., Bartow—Baptist Church will erect building; Scroggs & Ewing, Archts., Lamar Bldg.; receiving bids.

S. C., Charleston—St. Matthew's Lutheran Church, G. W. Koester, Chmn. Church Council, will improve building; new heating plant, etc.; total cost \$30,000.

S. C., Greenville—First Presbyterian Church, Allen J. Graham, Chmn., Bldg. Comm., considers erecting Sunday school addition and remodeling present structure, cost \$75,000 to \$150,000.

Tenn., Chattanooga—First Presbyterian Church, Rev. Jos. G. Venable, Pastor, plans to erect Sunday school annex.

Tex., Austin—St. Martin's Lutheran Church will have plans ready about May 10 for brick, cut stone and reinforced concrete building; 1 story; Geo. Louis Walling, Archt., Scarborough Bldg.

Tex., Big Springs—First Christian Church, Rev. Geo. J. Ruth, Pastor, will erect frame and stucco building; 1 story, 49x72 ft., sheet-rock, etc.; Swartz & Chamberlin, Archts., 416 Central Bank Bldg., San Angelo.

Tex., Canyon—Presbyterian Church, Rev. W. C. Kunze, Pastor, plans to start work June 1 on \$30,000 building, Fifth Ave. and 14th Street.

Tex., Cuero—Baptist Church, Dr. Buschel, Chmn. Bldg. Comm., receives bids about April 27 for brick, hollow tile and concrete building; cost \$40,000, 2 stories and basement; Morris & Noonan, Archts.-Engrs., Houston Bldg.*

Tex., Dallas—Scofield Memorial Church, Rev. Lewis Sperry Chafer, Pastor, plans to sell present property, Bryan and Harwood Sts., and erect new building.

Tex., El Paso—First Baptist Church, Dr. T. V. Neal, Pastor, breaks ground May 1 for \$75,000 building; will later convert structure for Sunday school and erect main auditorium; 3 stories, 104x75 ft., brick and concrete; Lehmann & Wuehrmann, Archts., Two Republics Bldg.*

Tex., Galveston—First Baptist Church will erect 2 or 3-story Sunday school building, 22nd St. and Avenue I; about 50x70 ft.; material for construction, roofing and flooring not determined. Address E. F. Adams, 2210 Avenue I.*

Tex., Houston—Grace Methodist Church, Rev. W. C. Martin, Pastor, will probably have plans completed early part of May for \$25,000 Sunday school building; 3 stories, brick, tile and concrete, 44x78 ft., built-up asphalt roof, concrete floors, forced warm air heating; Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio.*

Tex., Keren—First Baptist Church has permit for \$50,000 brick building. Address The Pastor.

Tex., Kingsville—Baptist Church opens bids May 6 for brick and hollow tile building; 2 stories and basement, reinforced concrete foundation, cost \$60,000; Will N. Noonan, Archt., Moorq Bldg., San Antonio.

Tex., Littlefield—Baptist Church, Rev. Mr. Phipps, Pastor, contemplates erecting \$50,000 brick and stone building.

Tex., Marshall—Protestant Episcopal Church will erect \$40,000 Gothic type building; brick, accommodate 250 to 300. Address The Rector.

Tex., Nacogdoches—Baptist Church, A. W. Birdwell, member, Bldg. Comm., plans to erect \$75,000 building.

Tex., Port Arthur—First M. E. Church South opens bids May 1 for last unit of \$175,000 building; cost \$65,000, hollow tile, concrete and stucco, 4 stories, tile and hardwood floors, concrete pillar foundation, tile roof, vaults, ventilators, ornamental terra cotta, rolling partitions; bids opened July or August on \$30,000 furnishings, equipment, etc., address H. F. Bunker; items to be purchased include pipe organ, heating plant, seats and pews; Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio; electric work, Electric Specialty Co., 743 Procter St.; plumbing, Dismukes Plumbing Co., 432 Waco Ave.*

Tex., San Antonio—St. Peter's, Prince of Apostles, R. C. Church will erect \$60,000 building, Cleveland St. and Barrilla Place, Alamo Heights; brick and concrete; Emmett T. Jackson, Chandler Bldg., revising plans.

Tex., San Antonio—Temple Beth El, Morris Stern, Chmn. Bldg. Comm., will have plans ready about June 1 for hollow tile and stucco community center and synagogue, Ashby and Belknap Sts.; cost \$250,000; 2 stories and basement; Seutter & Simons, Archts., Moore Bldg.*

Tex., San Benito—First Baptist Church, W. F. Heath, Chmn. Bldg. Comm., receives bids May 8 for ground floor story of church; cost \$35,000, brick and reinforced concrete; plans from Paul G. Silber & Co., Archts., Bedell Bldg., San Antonio; separate bids for plumbing and electric wiring.*

Tex., Uvalde—Baptist Church, A. B. Mayhew, Chmn. Bldg. Comm., rejected bids for brick building; revised plans ready about April 25; Will N. Noonan, Archt., both Moore Bldg., San Antonio.*

Tex., Venus—Methodist Episcopal Church, South, Rev. C. N. Morton, pastor, will erect brick veneer building; Wm. C. Meador, Archt., 910 Dan Waggoner Bldg., Fort Worth; bids opened April 23.

Va., Norfolk—Centerville Baptist Church, care W. F. Sawyer, 123 W. 27th St., will erect \$13,500 building, Pleasant Grove Magisterial District.

Va., Suffolk—Christian Church plans to remodel and enlarge present structure and erect Sunday school building; cost \$150,000. Address The Pastor.

W. Va., Huntington—Central Christian Church, Fifth Ave., Dr. J. A. Guthrie, member, plans to erect building, 11th Ave. and 17th St., South Side.

City and County

Ala., Birmingham—City, J. W. Donnelly, Pres., Library Board, will probably start work June 15 on \$650,000 public library; Miller & Martin, Archts., Title Guarantee Bldg.; Eric Gugler, Constl. Archt., 101 Park Ave., New York; Olmstead Bros., Landscape Archts., Brookline, Mass.*

Ala., Mobile—City, Harry T. Hartwell, Mayor, plans to call election, probably during summer, on public library bonds.

Ala., Mobile—Mobile Board of Commissioners, S. H. Hendrix, City Clk., City Hall, receives bids April 28 for 3 fire department buildings as follows: No. 1, N. W. of Conception and Savannah Sts.; No. 2, E. side Joachim St., near Beauregarde St.; No. 3, City Hall property, Water St. near Church St.; separate bids for plumbing, heating and electric work, etc.; plans and specifications from Geo. B. Rogers, Archt., 1007 Van Antwerp Bldg.; will also receive bids same date for Central Fire and Signal Station, St. Francis, Wilkinson and Scott Sts. and Springhill Ave.; plans and specifications from A. H. Downey, Archt., 51 St. Joseph St.*

Ala., Russellville—City plans to erect \$30,000 city auditorium and civic center. Address The Mayor.

Fla., Clearwater—City has plans by Ritchie, Parsons & Wakeling for municipal building, N. Garden Ave. and Hendrix St.; accommodate city offices, courtroom, jail and fire station.*

Fla., Fort Lauderdale—Broward County votes May 12 on \$500,000 courthouse bonds; concrete and tile, 5 stories, 80x160 ft.; Jas. M. Peterman, Archt.

Fla., Fort Lauderdale—City Council receives bids April 27 for city hall addition, N. Andrews Ave.; cost \$50,000, Spanish type, 2 stories, 112x54 ft., reinforced concrete, tile and stucco; auditorium to seat 1200; James M. Peterman, Archt.*

Fla., Miami—Dade County, W. Frank Blanton, County Judge, will erect temporary addition to courthouse; 2 stories; A. Ten Eyck Brown, Archt., Forsyth Bldg., At-

Ianta, Ga.; Mr. Brown is preparing plans for \$2,250,000 courthouse lately noted.*

Fla., Moorehaven—Glades County voted \$150,000 bonds to erect courthouse. Address County Comms.

Fla., Tampa—City, W. Lester Brown, City Mgr., plans to erect negro hospital and library and establish negro park and playground; \$100,000 appropriation available for hospital. Previously noted in part.*

Fla., Wauchula—Hardee County plans to erect courthouse; W. C. Robinson & Co., constructing sidewalk around site.

Fla., West Palm Beach—City, Henry Stephens Harvey, Mayor, plans to erect \$200,000 city hall and \$150,000 central fire and police station.

Ky., Russell—City, E. W. Smith, City Clk., receives bids April 28 for city building; \$50,000 bonds available; plans and specifications on file at office Mr. Smith, and may be had from Tyson & Foster, Archts., Grand Theatre Bldg., Ashland.*

Md., Baltimore—Board of Park Commissioners selected Theo. Wells Pleisch, American Bldg., as architect for proposed elephant house, Druid Hill Park.

Md., Baltimore—Mayor Howard W. Jackson appointed commission of 30, including City Comptroller, Pres. of City Council, Henry Adams of Maryland Institute, Lemuel T. Appold, Museum of Art, and others, to handle details of erection and management of \$1,000,000 Municipal Art Museum; bonds voted.*

Miss., Booneville—Prentiss County Board of Supervisors receives bids May 6 for rebuilding burned courthouse; use present foundation and section of walls; cost \$50,000; plans and specifications from N. W. Overstreet, Archt., Overstreet Bldg., Jackson.*

Miss., Canton—Madison County Board of Supervisors selected Claude H. Lindsley, Lamar Bldg., Jackson, as architect for remodeling courthouse; \$40,000 bonds voted.*

Miss., Jackson—City, A. J. Johnson, City Clk., votes May 16 on \$400,000 bonds, including \$10,000 for moving, improving and enlarging various public buildings.

N. C., Durham—City, R. W. Rigsby, City Mgr., receives bids May 4 for fireproof municipal auditorium and theater building; cost \$250,000, brick, stone and terra cotta, 3 stories, 70x120 ft., composition, wood and mastic floors, concrete foundation, Johns-Manville and Barrett roofs, hollow and interior tile, metal ceilings and doors, vaults, mail chutes, ventilators, steel sash and trim, wire glass; furnishings, equipment, etc., \$25,000 to \$50,000; plans and specifications from Milburn, Heister & Co., Archts., First National Bank Bldg., Durham, and Union Savings Bank Bldg., Washington, D. C.*

N. C., Greensboro—Greensboro Police Club, Capt. J. S. Current, Pres., will erect clubhouse near City reservoir.

N. C., Greensboro—City, P. C. Painter, City Mgr., has approved tentative plans by Chas. C. Hartmann for central fire station, Greene St., near Price St.; will also erect W. Lee St. station; contract let for renovating Southside station.

N. C., Newton—Catawba County plans to erect jail; Mr. Brady, Chmn., County Commissioners.

S. C., Pickens—Pickens County plans to erect girls' dormitory, boys' dormitory, dining hall and kitchen at Rocky Bottom Boys' and Girls' Camp, 20 miles north of Pickens; T. A. Bowen and Miss Elva Stewart, County Agts.

Tenn., Centerville—Hickman County will repair present courthouse or erect new building; razing section of structure to determine condition. Address County Comms.

Tenn., Nashville—City Council considers erecting fire station, section of Albert E. Hill School lot; cost, including equipment, about \$22,000.

Tex., Luling—City contemplates erecting central fire station. Address City Engr.

Tex., Muleshoe—Bailey County Commissioners' Court, Wm. G. Kennedy, County Judge, receives bids April 27 (lately noted April 23) for erection, including heating, plumbing and wiring, of courthouse; cost \$60,000; plans and specifications from Butler Co., Archts., Oil Ex. Bldg., Oklahoma City, Okla., and Lubbock, Tex.*

Va., Richmond—Directory of Public Safety receives bids April 27 for Juvenile Court and Detention Home; cost \$100,000, 3 stories and basement, L-shape, 45x50 ft., fireproof, brick and concrete, composition floors, concrete foundation, slag or tile roof, hollow and interior tile, metal doors, wire glass; Carnel & Johnson, Archts., Virginia Rwy. & Power Bldg.*

Va., Sandston (R. R. Station Richmond)—Town plans to erect library building; site donated. Address Sandston Civic Assn.

Dwellings

Ala., Birmingham—J. M. Pitts, 2011 Ave I will erect \$10,000 brick veneer residence, 836 Lenwood Rd., South.

Ala., Sheffield—Nikolas A. Skoufis, Chicago, plans to erect number brick dwellings, Industrial Plant Gate subdivision.

Fla., Bartow—Joe Johnston will erect \$10,000 residence, Law Pass and Hibiscus Drive, Meadow Vista sub-division; concrete foundation, hollow clay tile interior; Keys & Spitzer, Archts.

Fla., Bradenton—Varney Bros., Washington Square Bldg., will erect 8 to 12 French type dwellings during 1925; concrete block and stucco, 1-story, 6 to 10 rooms, cost about \$9500 each, composition shingle roofs, wood and concrete floors, concrete foundations, tile baths, steel sash and trim, hand-wrought iron electric fixtures; plans and construction by owner; plumbing, Griggs Metal & Plumbing Co.; work started.*

Fla., Bushnell—Florida Sunland Estates, Inc., Chas. A. Parker, Jr., Pres., Arcade Bldg., Lakeland, plans to erect number of dwellings in connection with development of 160-acre first unit of Sunland Estates. (See Land Development.)

Fla., Fort Pierce—Koblegard Realty Corp., R. N. Koblegard, Pres., will erect number of hollow tile and concrete block dwellings in connection with development of Pinewood Sub-division, but plans not complete.

Fla., Gainesville—Golf View Realty Co., Inc., A. M. Glass, Sec., will erect Spanish type bungalow in connection with development of 32 acres near Gainesville; probably erect additional dwellings.

Fla., Jacksonville—H. F. McAden, Riverside Ave., will erect \$10,500 residence, Oak St. near Challen Ave.; 1 story, brick veneer.

Fla., Miami—Paul V. Matkin, Indianapolis, Ind., present address 122 N. E. Third St., Miami, will erect 50 dwellings, Coral Gables, including 2 three-story apartments in Douglas section; plans drawn by Robt. Weed, 328 N. E. Second Ave., for first dwelling, Avenue Venetia and Ferdinand St., cost \$15,000; H. Geo. Fink, Congress Bldg., also preparing plans for several.

Fla., Miami—J. C. Warr, Cape Cod, Mass., will erect \$80,000 Spanish-Moorish type residence, Avenue Malaga and Cordova St., Country Club section, Coral Gables; 13 rooms and 4 baths, solarium, etc., Spanish tile floors on first floor, ornamental stone fireplace, wrought iron trim, stone and iron grille work, Byzantine columns, Cuban tile roof; H. Geo. Fink, Archt., Congress Bldg.

Fla., Miami—W. H. Gibson, care Gibson Art Co., has residence site, Normandy Beach.

Fla., Miami—H. L. Harmon is having plans drawn by Frank Wyatt Woods, Halcyon Arcade, for \$15,000 cement block and stucco residence, Coral Gables; 2 stories, 8 rooms, loggia, patio and 2-car garage, tile and oak floors, concrete foundation, Spanish tile roof, interior tile, ornamental terra cotta, steel sash and trim, ventilators; general bids opened June 15; bids on furnishings, equipment, etc., \$5500, opened Oct. 1; items to be purchased include electric ice box, Polar hot water heating system.*

Fla., Miami—L. V. Le Cato will erect 2 dwellings, Avenue Milan, Granada section, Coral Gables; J. C. Gault, Archt., Real Estate Bldg., Miami.

Fla., Miami—Jacob Meiers has residence site, Normandy Beach.

Fla., Miami—Fred Ball, Jr., 331 N. E. 18th St., will erect \$20,000 dwelling, Avenue Madrid and S. Greenway Drive; also 6-room dwelling, Avenue Navarre near Segovia St., both Coral Gables; H. Geo. Fink, Archt., Congress Bldg.*

Fla., Miami—Capt. J. R. Williams, Pres., Coral Gables Military Academy, will erect residence, Avenue Zamora.

Fla., Miami Beach—J. H. Semon will erect \$36,000 residence, Mid-Golf section; Hampton & Ehmann, Archts., Congress Bldg., Miami.

Fla., Orlando—V. B. Shiel, Richmond, Va., will erect Spanish type residence, Niblick Ave., Dubbsread; stucco, Spanish tile roof, tile terrace, 5 rooms.

Fla., St. Petersburg—J. M. Chiles, Owner, Kenilworth Inn, Asheville, N. C., will erect \$20,000 residence, Jungle Country Club Rd.; 9 rooms, 3 baths, roof porch; Frank S. Cross, Archt.

Fla., St. Petersburg—Sam Harris will erect residence, Jungle subdivision.

Fla., St. Petersburg—Saml. Taylor, Pres. Export Chemical Co., will erect residence, Jungle subdivision.

Fla., Sarasota—Chas. H. Carleton, Cleveland, O., will erect residence, Siesta Key.

Fla., Sarasota—Mrs. Stanley M. Field, 1550 N. State Parkway, Chicago, will erect residence.

Fla., Sarasota—Dr. H. W. Moore, Asst. Surgeon Chicago & Northwestern R. R. Co., Chicago, Ill., plans to erect residence, Indian Beach.

Fla., St. Petersburg—M. B. Welch will erect \$15,000 residence and garage, 20th Ave., near Cherry St.

Fla., South Jacksonville (Ind. Branch Jacksonville)—A. Greenberg, 107 E. St. Johns Ave., will erect Spanish type bungalow, Marion St. near Pine St.; 10 rooms, tile and stucco.

Fla., West Palm Beach—Mrs. F. E. Halley will erect \$16,000 residence, Barcelona Ave.

Fla., West Palm Beach—J. S. Willson will erect \$10,000 residence and garage, Valencia Ave.

Fla., West Palm Beach—Mrs. J. Samuel Hodges will erect \$26,000 residence, Flagler Drive.

Fla., Yamato—V. Mason Well, West Palm Beach, is Pres. of syndicate to erect 40 dwellings in connection with development of 634 acres; cost \$2500 to \$4000 each.

Ga., Augusta—W. L. Hatcher, Broadway Apt., will erect residence; Scroggs & Ewing, Archts., Lamar Bldg.

Ga., Augusta—W. M. McGowan will erect residence; Scroggs & Ewing, Archts., Lamar Bldg.

Ga., Augusta—Mrs. Grace W. Perkins will erect residence, Troup St.; W. W. Simmons, Archt.; receiving bids.

Ga., Augusta—H. Woodward, Leonard Bldg., will erect residence, McDowell St.; W. W. Simmons, Archt.; receiving bids.

Ga., Macon—Odom Realty Co., S. E. Odom, Pres., plans to erect 12 dwellings, Napier and Beech Aves.; Spanish and English types, brick, stucco and frame; total cost about \$75,000.

Ga., Savannah—St. Thomas P. E. Church will erect rectory. Address The Rector.

Ky., Colly—Elzy Franklin will erect residence; contract at once.

Ky., Paducah—R. H. Beck will erect brick bungalow, 26th and Jefferson Sts.; G. Tandy Smith, Archt.

Ky., Paducah—C. L. Ervin will erect Colonial residence, Colonial Heights; G. Tandy Smith, Archt.

Ky., Paducah—J. D. Hart will erect residence, 27th St. and Broadway; G. Tandy Smith, Archt.

Ky., Paducah—Adolph Mayer will erect Colonial residence, Avondale Heights; G. Tandy Smith, Archt.

Ky., Whitesburg—A. K. Franklin will erect residence; contract at once.

Ky., Whitesburg—Chas. Back will erect residence; contract at once.

Ky., Whitesburg—T. G. Wright will erect 2 dwellings; contract at once.

La., New Orleans—L. Aronson 2736 Octavia St. will erect 2 duplex dwellings, Willow and Joseph Sts.; total cost \$10,000.

La., New Orleans—Paul E. Chartier, 1611 Gentilly St., contemplates erecting double raised bungalow, St. Louis and Vicksburg Sts.; work probably start in about 60 days.

Mr., Baltimore—Thos. E. Biddison, Fidelity Bldg., will erect residence, E. side Roland Ave., S. of Lake Ave.

Md., Baltimore—Milburn Realty Co., 5201 Eastern Ave plans to erect 19 buildings, W. side Seventh St., S. of Eastern Ave.; total cost \$40,000.

Md., Baltimore—Winner Construction Co. will erect 8 brick dwellings, S. W. cor. Cold Spring Lane and Pall Mall Rd.; 2 stories; total cost \$18,000.

Md., Baltimore—E. J. Gallagher Realty Co., Munsey Bldg., will erect 34 dwellings, 1100 and 1200 blocks Darley Ave.; 2 stories, brick; total cost about \$69,000.

Md., Baltimore—Harry Rubin will erect 68 dwellings, vicinity of Rubin and Rogers Ave.; 2 stories, brick; total cost about \$245,000.

Md., Baltimore—Cleveland R. Bealmeir, 16 E. Lexington St., will erect 46 dwellings, 2900 and 3000 blocks Atlantic Ave.; 2 stories, brick; total cost about \$120,000; will also erect 25 brick dwellings, 29th St. near Barclay St.

Md., Baltimore—Walter F. Hidey, 3921 Gwyn Oak Ave., will erect \$12,000 residence, 3202 Liberty Heights Ave.; 1½ stories, 30x40 feet.

Md., Baltimore—Roland Park-Homeland Co., 18 E. Lexington St., will erect 3 hollow tile and stucco and 1 brick dwelling, Homeland; 33x32 ft., 35x47 ft., 35x49 ft. and 35 x39 ft., oak floors, stone foundations, slate roofs, hollow and interior tile; total cost \$75,000; plans by W. H. Emory, Jr., Munsay Bldg.; E. L. Palmer, Jr., 513 N. Charles St.; Mottu & White, 527 N. Charles St., and Buckler & Fennagen, 325 N. Charles St.; items to be purchased include heating system and plumbing; date of opening bids not set. Address J. Winthrop Wolcott, 18 E. Lexington St.*

Md., Baltimore—Robt. S. Zeno, 1117 Edmundson Ave., plans to erect number of dwellings on 16-acre tract, Reisterstown Rd. and Strathmore Park.

Md., Catonsville (Branch Baltimore)—Syndicate purchased 50-acre tract, "Beechfield," through J. Kearsley Kearney & Co., 337 St. Paul Place, and plans to erect number of dwellings in connection with development.

Md., Baltimore—A. Wm. Field, 320 W. Biddle St., will erect residence, Northway and Underwood Rd.

Miss., Grenada—W. E. Jackson, Pres., Jackson Printing Co., will erect \$10,000 residence; Anker F. Hansen, Archt., Memphis, Tenn.

Miss., Hattiesburg—L. E. Faulkner, Gen. Mgr., Mississippi Central R. R. Co., plans to erect residence, Adeline and Concart Sts.

Mo., Carthage—Jas. Wallace, Engr., Atlas Powder Plant, will erect English type residence, Bellaire Place and Grand Ave.

Mo., Kansas City—August Colombo will erect 2 dwellings, 2700-2704 E. 60th St.

Mo., Kansas City—D. A. Farquhar will erect frame residence, 18 E. Winthrop St.

Mo., Kansas City—J. M. Hempding will erect frame residence, 6438 Walnut St.

Mo., Kansas City—A. W. Michlick will erect frame residence, 301 W. 69th St.

Mo., Kansas City—I. W. Price will erect 2 frame dwellings, 5504-06 Park Ave.

Mo., Kansas City—Fred Shackelford, 3840 Myrtle St., will erect 2 frame dwellings, 3805-3809 Bales Ave.

Mo., Kansas City—A. F. Caughenor will erect residence, 1936 E. 72nd St.

Mo., Kansas City—Great Western Real Estate Co., will erect 4 dwellings, 6904 Kensington Ave., 7018 Myrtle Ave., 4012 E. 70th St., and 4138 Monroe Ave.; total cost \$11,000.

Mo., Kansas City—J. D. Pruett will erect residence, 5019 E. Sixth St.

Mo., Kansas City—Louis R. Stone, 1036 Barnett St., will erect residence, 2345 Van Brunt Blvd.

Mo., Kansas City—J. A. Taylor, 822 Scarratt Bldg., will erect 3 dwellings, 16-20-24 W. 69th St.; total cost \$12,000.

Mo., Kansas City—H. H. Westerbeck, 2701 Parks St., will erect residence, 35 W. 70th St.

Mo., St. Petersburg—Mrs. L. B. Brown, 200 W. Exchange St., will erect \$25,000 residence.

Mo., St. Louis—F. E. Stillman, 7259 Hiawatha Ave., will erect \$12,350 residence, Hampton Park; 2 stories, 38x46 ft.; B. A. Dudeck, Contr., 1452 McCausland Ave.

N. C., Charlotte—Mrs. Jennie Patterson, 211 S. Cedar St., will erect \$15,000 residence, E. Morehead St.; 8 rooms; F. L. Bonfoey, Archt., 6 N. Tyrone St.

N. C., Raleigh—Dr. Z. M. Caveniss, Citizen Bank Bldg., will erect residence; Wilson, Berryman & Kennedy, Archts., Raleigh and Charlotte, N. C., and Columbia, S. C.

N. C., Greensboro—H. G. Alexander, 128 Tate St., will erect \$10,000 brick veneer residence, Madison Ave.; 2 stories, 8 rooms.

Okl., Tulsa—Fred A. Graybill, Unity Bldg., will erect \$10,000 residence, 1671 E. 19th St.

S. C., Eutawville—T. L. Conner, Jr., will erect residence; Lafaye & Lafaye, Archts., Columbia.

S. C., Lancaster—Mrs. Walter Stevens will erect residence; Wilson, Berryman & Kennedy, Archts., Raleigh, N. C., Charlotte, N. C., and Columbia, S. C.

S. C., Orangeburg—R. H. Jennings, Jr., will erect residence; Lafaye & Lafaye, Archts., Columbia.

Tenn., Knoxville—W. W. Baird, 2443 Magnolia Ave., will erect residence, Kingston Pike.

Tenn., Knoxville—L. S. Elgin, 988 N. Central Ave., plans to erect residence, Kingston Pike and N. E. Logan St.

Tenn., Knoxville—John Rogers, 1638 Boyd St., reported to erect \$20,000 residence, Kingston Pike.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tenn., Memphis—Chas. C. Harstick, 1903 Linden Ave., will erect English type residence, Cypress Drive, Hein Park; stone, stucco, half-timber and tile, 2 baths; Geo. Mahan, Jr., Archt., 434 N. McLean St.

Tenn., Nashville—Walter H. Wright will erect 3 brick veneer dwellings, 2311-15 Pierce St.; 6 rooms; total cost \$15,000.

Tex., Corpus Christi—E. A. Carter will erect \$12,000 residence, Third St.

Tex., Dallas—Layton Bailey will erect \$11,500, brick veneer residence, 3500 block University Blvd., University Park; Bryan & Sharp, Archts.

Tex., Dallas—Joe E. Lawther, 4924 Live Oak St., will erect \$15,000 brick veneer cottage, 6703 Avalon St.; 2 stories.

Tex., Fort Worth—Fred E. Hosmer will erect \$11,750 brick veneer residence, 2818 Fifth Ave.

Tex., Fort Worth—John C. Ryan, Jr., 2215 Fifth Ave., will erect \$16,500 residence, 2806 Fifth Ave.

Tex., Fort Worth—John C. Ryan Land Co., Fort Worth National Bank Bldg., will erect \$10,500 brick veneer dwelling, Sixth Ave.

Tex., Lubbock—G. A. Gunn will erect 3 rooming houses for girls, 16th St.; stucco and brick veneer, 21 rooms each.

Tex., Houston—J. A. Roberts, 603 Highland Ave., will erect \$10,200 residence, Rosedale Ave. and Austin St.; 6 rooms and bath, brick veneer, shingle roof.

Tex., Liberty—First Baptist Church plans to erect \$10,000 brick veneer parsonage; 1 story, 6 rooms. Address The Pastor.

Tex., San Antonio—Dr. Paul Cook will remodel 2-story residence, 409 W. Park Ave.; erect 2-story frame addition; Harvey P. Smith, Archt., National Bank of Commerce Bldg.

Tex., San Antonio—J. B. Etheridge, Brady Bldg., contemplates erecting 5-room frame residence, Belknap and Ridgewood Sts.

Tex., San Antonio—Chas. Wernwag, 828 Avenue D, contemplates erecting frame residence, Broadway and Alta St.; 6 rooms, brick foundation.

Tex., San Antonio—C. S. DeFreest, 2025 Main Ave., will erect \$18,000 residence, Linwood and Howard Sts., Monte Vista Addition; 2 stories, 10 rooms, tile and stucco.

Va., Hopewell—Geo. Chakales and others will erect 10 cottages at Burwell's Bay; 3 rooms; will also erect 30-room frame hotel; S. Daley Craig, Archt., Petersburg.

Government and State

Arkansas—State, Brig. Gen. H. L. McAlister, Adj't. Gen., Arkansas National Guard, will erect or purchase buildings for National Guard units in various sections; \$45,000 appropriation a year available, not over \$15,000 to be expended on any one armory.

Ark., Harrison—Arkansas National Guard, Brig. Gen. H. L. McAlister, Adj't. Gen., Little Rock, will erect \$15,000 armory for Harrison unit. Geo. McKinney, Capt.; 70x125 ft., seat 2500 to 3000; H. Ray Burks, Archt., Southern Trust Bldg., Little Rock. (See Government and State—Arkansas.)

Miss., Jackson—National Guard—Curtis T. Green, Adj't. Gen., will erect 3-story brick or concrete armory, near Mississippi State Fair Grounds; 120x120 ft., gymnasium.

Okl., Fort Sill (Ind. Branch Lawton)—Government reported to erect kitchen, mess halls and administration building at summer camp; cost \$30,000. Address Baird H. Markham, Adj't. Gen., Fort Sill.

Hospitals, Sanatoriums, Etc.

Fla., Miami—City, W. Lester Brown, City Mgr., plans to erect \$100,000 negro hospital. (See Buildings Proposed—City and County.)*

Fla., Sarasota—Welfare Assn., Geo. L. Thacker, Chmn. Bldg. Comm., has plans by Frank Martin for Sarasota Hospital, Sarasota Heights; first unit to cost about \$25,000.*

Fla., Alto—State Board of Health, Joe P. Bowdoin, M. D., Deputy Comm'r. of Health, Atlanta, has completed plans by Daniell & Bentell; 307-09 Healey Bldg., Atlanta, for \$500,000 fireproof tuberculosis sanatorium: concrete, 3 stories, concrete, hardwood and wood block floors, concrete foundation, tar and gravel and tile roof, hollow and interior tile, metal doors, vaults, ventilators, ornamental terra cotta, steel sash and trim, wire glass; probably break ground within few days.*

N. C., Durham—Drs. McPherson & Kerns, Trust Bldg., receiving bids for fireproof eye and ear infirmary; cost \$50,000, 3 stories and basement, 40x80 ft., composition tile, wood

and concrete floors, concrete foundation, slate roof, hollow and interior tile, metal doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass, 1 hospital elevator; furnishings, equipment, etc., \$5000; Milburn, Heister & Co., Archts., First National Bank Bldg., Durham, and Union Savings Bank Bldg., Washington, D. C.*

N. C., Winston-Salem—Baptist Hospital, Rev. G. T. Lumpkin, Supt., plans to erect \$40,000 nurses' home.

S. C., Charleston—St. Francis Xavier Infirmary and Sanitarium, H. K. Lea, Chmn., Bldg. Comm., receives bids April 28 at office John D. Newcomer, Asso. Archt., 32 Broad St., for Spanish type hospital building, Ashley Ave. and Calhoun St.; reinforced concrete, hollow tile, stucco and terra cotta, 4 stories, 110x60 ft., tile and slag roof, hot water heat, fireproof concrete stair tower, hollow tile partitions, buzzer-lighting calling system, electric push-button automatic elevator, 10 telephones to connect with switchboard, X-ray, laboratory, etherizing, operating, sterilizing, locker rooms, etc.; F. Ferdinand Durang, Archt., 1220 Locust St., Philadelphia.*

Tenn., Chattanooga—Mrs. D. S. Etheridge N. Crest Road, is chairman of Bldg. Comm. to erect Spiegner-Banksom Memorial Clinic.

Tenn., Chattanooga—Hamilton Lodge, I. O. O. F., is interested in erection of cottage at Pine Breeze Sanatorium.

Tenn., Clarksville—Clarksville Hospital will expend \$25,000 to remodel and equip dwelling recently purchased for hospital. Recently purchased for hospital; Asmus & Clark, Archts., Stahlman Bldg.

Tex., Austin—St. David's Church Hospital, Inc., 304 E. Seventh St., Judge Geo. C. Calhoun, Pres., will have plans ready about May 10 for bids on brick addition to Physicians & Surgeons Hospital, 17th and Rio Grande Sts.; cost \$50,000; Edwin C. Kreisle and Geo. W. Walling, Jr., Assos. Archts., both Scarborough Bldg.*

Tex., El Paso—West Texas and El Paso Baptists, under auspices of El Paso Baptists' Assn., Dr. T. V. Neal, Pastor, First Baptist Church, will erect Good Samaritan Hospital, Virginia St. and Magoffin Ave.; first unit \$100,000; 4 stories with foundation to carry 8 stories; will remodel present church building for temporary hospital; ultimate plans call for \$250,000 group.

Tex., Houston—City, H. A. Halverton, City Commr., will erect \$75,000 negro hospital, Ennis and Paige Sts.; funds donated.*

Tex., Paris—Lamar County, W. D. Lawrence, County Judge, receives bids April 30 on general work, plumbing, heating and wiring for reinforced concrete hospital; cost \$85,000, 2 stories, 40x112 ft., terrazzo hollow tile, steel sash and trim, wire glass; bids later on furnishings, equipment, etc., \$15,000; Flint & Broad, Melba Bldg., Dallas, and Curtis & Lightfoot, Assos. Archts.*

Tex., Stamford—Drs. Hudson, Southern and Brinkley will call for bids about May 10 on brick and concrete nurses' home; cost \$35,000; David S. Castle Co., Archt., 26 Radford Bldg., Abilene.*

Va., Warrenton—Warrenton Hospital will purchase instruments and equipment for operating room.

W. Va., Charleston—Kanawha Valley Hospital, Dr. G. B. Capito, member, organized to purchase Kanawha Valley Hospital; will remodel; erect new entrance.

Hotels and Apartments

Ala., Birmingham—E. C. Adams, American Trust Bldg., purchased S. E. cor. Highland Ave. and 20th St.; plans erection of \$150,000 to \$200,000, 3 or 4-story, brick apartment building.

Ala., Birmingham—H. L. Kyle, 1121 N. 13th St., and T. M. Thorpe will erect \$15,000 apartment house, Mountain Ave. and Irquoise St., North.

Ark., Russellville—Miss Evelyn H. Pearson, Mexia, Texas, completed plans for erection of 65-room hotel.

Ark., Pine Bluff—O. C. Hauber, Talbot St., will erect \$100,000, 34-apartment building.

Fla., Boca Raton—Mizner Development Corp., Palm Beach, wire MANUFACTURERS RECORD: "We have purchased 16,000 acres, 2 miles ocean front, plan to erect \$6,000,000 hotel, stucco, fireproof, contract not let."*

Fla., Bushnell—Florida Sunland Estates, Inc., Charles A. Parker, Jr., Pres., Arcade Bldg., Lakeland, plans to erect tourist hotel. (See Buildings Proposed—Miscellaneous.)

Fla., Clearwater—Steiger & Brown purchased property on South Osceola Ave., reported to have plans in progress by Henry L. Taylor, Archt., 621 5th Ave., S. St. Peters-

burg, for 5-story, reinforced concrete, 50-apartment building.

Fla., Cocoa—R. E. Grabel, Propr. of Holly Hill, Davenport, reported to plan \$300,000 hotel on Cocoa Ocean Beach.

Fla., Delray—Hampton & Ehmann, Archts., Congress Bldg., Miami, completing plans for erection of \$250,000, 2-story, Spanish-type, stucco finish Alterep Hotel; 94 rooms with connecting baths, lobby and dining room.*

Fla., Fort Lauderdale—J. Gallway and associates of New York purchased northern half of Block 13, facing Ocean Road, reported to start work in 30 days on two 24-apartment hotel buildings.

Fla., Jacksonville—Morris Schas, representing group of North Carolina investors, announced purchase of property in 300 block E. Forsyth St., as site for proposed tourist hotel; syndicate composed of I. Goldstein, S. I. Blumberg, A. W. Selz and J. Y. Sutker.

Fla., Miami—Paul V. Matkin, 122 N. E. Third St., will erect 2 apartments, Douglas section, Coral Gables; 3 stories. (See Buildings Proposed—Dwellings.)

Fla., Miami—M. L. House let contract to Eugene Page for \$11,500, 8-family apartment house, 1428 N. W. Second St.; J. G. O'Reilly, Archt., 253 N. E. 35th St.

Fla., Miami—R. F. Howell has plans by J. P. Turner, 236 N. W. 21st St., for \$50,000, 3-story apartment building. S. W. Sixth St.

Fla., Miami—Joachim Fritz razing dairy buildings, Melrose Heights sub-division, soon start excavations for foundation of \$1,000,000 hotel.

Fla., Miami Beach—Devener & Fink soon have plans for erection of \$130,000, 3-story, reinforced concrete, Spanish-type hotel, 14th St. and Pennsylvania Ave.; 75 rooms with connecting baths.

Fla., Miami Beach—Lawrence D. Levy plans to erect apartment building this summer.

Fla., Miami Beach—Carl G. Fisher Properties, Lincoln Rd., W. A. Kohlhepp, Vice-Pres., announced plans in progress by W. A. Brown for erection of hotel.

Fla., Miami Beach—N. B. T. Roney, 426 Collins Ave., Miami Beach, has permits for 2 hotel buildings, to be first in Espanola way Spanish village, to be developed this summer; each \$70,000, N. W. and S. W. cors. Washington Ave. and Espanola Way; 9 shops on ground floor, 20 guest rooms, lobby and offices on second and 23 guest rooms on third.

Fla., Miami Beach—R. L. McChristian has plans by W. F. Brown, 608 5th St., for \$90,000, 50-room hotel building.

Fla., Okeechobee—Glenn Curtiss and James H. Bright, Hialeah, reported to erect 50-room hotel; George Hyde, Archt., Miami.

Fla., Sarasota—Samuel Gumpertz purchased property on Broadway; plans to erect apartment house.

Fla., Sebring—Orange Blossom Hotel Co. will start work this summer on 6-story hotel on the Circle, present site of Whitehouse Hotel; 6 stores and lobby on first floor.

Fla., St. Augustine—Edward E. Warwick and W. M. Blackwell of Schulte Realty Co. purchased Hotel St. Augustine-by-the-Sea, bath houses, casino and tract of land; plans in future to erect 100-room hotel and number of cottages.

Fla., St. Petersburg—C. Perry Snell, 12 4th St. N., will erect hotel in connection with land development. (See Land Development.)

Fla., St. Petersburg—Mrs. A. J. Harvey leased Kretchmer property, Second Ave., North; reported to plan erection of hotel in future.

Fla., St. Petersburg—M. B. Welch will erect \$30,000, 3-story, hollow tile, 36-room, 12-apartment building, 263 Fifth St.

Fla., St. Petersburg—Harry C. Case, 401 Third Ave., N., will erect first unit, 3 or 4 stories, of 7-story, \$300,000, 100-room hotel this summer; remainder of structure to be completed for following season; steel frame work and Spanish tile; store rooms, shops and lobby on first floor.*

Fla., Tampa—Apartment Building Trust Co., 308 Stovall-Nelson Bldg., will erect two 5-story, fireproof apartment buildings, Columbia Drive in Country Club section of Davis Islands, this summer; \$65,000; each building will have 10 apartments of 5 rooms each, built-in refrigerators, tile sinks, hardwood floors, tile baths, electric automatic elevators.

Fla., Tavares—Chamber of Commerce, Rex Saffer, Sec., interested in erection of tourist hotel; would like detailed information.

Fla., Tavares—G. A. Schlosser considering tentative plans for 16 to 20-apartment house.

Fla., West Palm Beach—G. W. Barnett will

erect \$15,000 apartment building and garage, 23rd St.

Fla., Winter Haven—H. B. Mabson, Cumberland, Md., and Winter Haven, has plans in progress by B. C. Bonfoey, Tampa, for \$100,000, 3-story, 50-room, brick hotel building, N. Fifth St. and W. Lake Ave.*

Ga., LaGrange—R. O. Pharr announced plans for 36-room hotel on Broad St.

Ga., Cartersville—W. A. Dodd purchased Park Hotel property; plans extensive improvements.

Ga., Valdosta—James U. Jackson, 550 Carroll Ave., Augusta, Ga., and associates will raise \$1,500,000 resort hotel if \$250,000 is raised locally; J. M. Smith, Pres. Board of Directors of Chamber of Commerce, appointed committee to prepare concrete offer.

Ky., Paducah—James E. English has plans in progress by G. Tandy Smith for \$125,000, 3-story, brick, 12-apartment building, Jefferson St. and Fountain Ave.

La., Natchitoches—L. H. and J. J. Johnson, owners of Hotel Nakatoski, accepted plans by Jones, Roessle, Olschner & Wiener, Archts., Shreveport, for 25-room addition; private baths, new passenger elevator, extensive improvements to present building, remodel dining room and lobby and install new tile and marble floors, new plumbing and heating; \$50,000.

Md., Baltimore—Cleveland R. Bealmeir, 16 E. Lexington St., purchased 4-story residence, 1918 N. Charles St.; will convert into apartments.

Md., Easton—Miss Ella Fishburn purchased Hotel Avon, reported to improve.

Miss., Tupelo—P. S. Weaver will erect 2-story, brick, 6-apartment building, Jefferson St.

Mo., Mexico—Mrs. J. T. Johnson will erect \$50,000, 3-story, brick, 12 six-room efficiency apartment building; 12-room house now on property, East Anderson and Calhoun Sts., to be divided into 2 residences.

N. C., Greensboro—C. W. Simpson will erect apartment building, Magnolia St. and Besemer Ave.; over 125 rooms, 36 apartments, brick construction, 3 stories.

N. C., Hickory—Hickory Hotel Co., J. A. Moretz, Pres. Board of Directors, opens bids May 6 for erection of \$300,000, 8-story, fireproof hotel building, 11th Ave. and 13th St.; 97 bedrooms, each with bath, also 5 shops and public rooms; C. C. Hartman, Archt., Jefferson Bldg., Greensboro.*

N. C., High Point—Max E. Ruehmund, Richmond Trust Bldg., and C. W. Sampson, both Richmond, Va., soon start work on \$150,000, 3-story, brick apartment building, N. Main St. and Greensboro Ave.; 2 apartments of 12 families each.

N. C., Kinston—Hotel Committee of Chamber of Commerce, Harvey C. Hines, Chmn., has proposition for erection of \$220,000 hotel; prominent hotel man and architect will provide \$170,000 if \$50,000 is subscribed locally.

Tenn., Chattanooga—A. C. Shawhan, 613 Walnut St., purchased Anderson Home, 6th and Walnut Sts.; considering erection of \$100,000, 3-story apartment house, stores on ground floor.

Tenn., Knoxville—John L. Greer has leased St. James Hotel, reported to plan \$125,000, 3-story addition.

Tenn., Knoxville—G. S. Daugherty, 405 E. 4th St., Knoxville, and C. H. Bacon, London, plan to erect \$60,000, 3-story, brick, 94x64-ft. apartment building, Kingston Pike; tile roof, electric refrigerators.

Tex., Beaumont—Liberty Hotel Co., care Chamber of Commerce, has preliminary plans in progress by F. W. Steinman & Son, Archts., for \$50,000, brick and concrete or hollow tile, 100x125 ft., 40-room hotel building.

Tex., Georgetown—Lions Club promoting erection of \$75,000, brick and concrete hotel building.

Tex., Dallas—T. P. Finnegan, 4229 Lemmon St., will erect \$20,000, 26-room, brick veneer, 12-apartment building, 4266 Hawthorne St.

Tex., Dallas—H. C. Headington, 4714 Gaston St., will erect \$35,000, 3-story, 72-room, brick veneer, 18-apartment building, 3919 Fairmount St.

Tex., Huntsville—Committee of citizens composed of Dr. J. R. Martin, Mayor Ball, Judge McKinney and others accepted plans and specifications for \$50,000 hotel to be known as New Kemp Hotel; brick, dining room and lobby each 40x60 ft.; Mrs. T. V. Peters will manage; call for bids and start work immediately.

Va., Hopewell—Geo. Chakales and others will erect 30-room frame hotel, restaurant;

S. Daley Craig, Archt., Petersburg. (See Buildings Proposed—Dwellings.)

Va., Lynchburg—Chamber of Commerce, H. H. Harris, Pres., probably authorize Hockenbury System, Inc., Harrisburg, Pa., to make survey for proposed hotel.

Va., Norfolk—Frank East, Jr., contemplates erecting \$50,000, 18-family apartment building, Core and Shirley Aves.

W. Va., Berkeley Spring—F. C. Jackson, Pres. of Berkeley Spring Hotel Corp., selected Milburn, Heister & Co., Archts., Washington, D. C., and Durham, N. C., to prepare plans and specifications for 500-room hotel; total cost \$1,000,000.

W. Va., Buckhannon—Buckhannon Hotel Co., care G. O. Young, has preliminary plans by Holmboe & Pogue, Archts., Empire Bldg., Clarksburg, for \$200,000, 5-story, 60x134 ft., fireproof hotel building; tile and concrete floors, concrete foundation, hollow tile, interior tile, metal doors, steel sash and trim, wire glass, ventilators, mail chutes.*

W. Va., Huntington—Charles Farley plans to erect \$30,000, 3-story apartment building, 12th St., between Sixth and Seventh Aves.; Levi J. Dean, Archt., Simms-Keller Bldg.

W. Va., Huntington—Levi J. Dean, Archt., Simms-Keller Bldg., prepared plans for \$30,000, brick and steel, 3-story apartment building, 12th St., between 6th and 7th Aves.

Miscellaneous

Ala., Decatur—Morgan Kiwanis Club purchased church property, Ferry and Walnut Sts.; will remodel into clubhouse.

Fla., Bushnell—Florida Sunland Estates, Inc., Charles A. Parker, Jr., Pres., Arcade Bldg., Lakeland, plans to erect clubhouse in connection with development; also plan large tourist hotel.

Fla., DeLand—Clubhouse—J. O. Potts, Archt., Philadelphia, Pa., submitted plans for clubhouse at College Arms golf course.

Fla., Orlando—Harry Hoffman and associates purchased W. Church St. property; plan to erect buildings.

Fla., Punta Gorda—Clubhouse—Mrs. J. H. Hancock promoting consolidation of women's clubs and erection of clubhouse.

Fla., Titusville—Clubhouse—Indian Hills Golf Estates, Calvin Black, Sec., will erect clubhouse immediately, in connection with development of 550 acres, to include 2 golf courses, home sites, etc.

Ga., Atlanta—Orphanage—Leonard Street Orphanage will receive conditional gift of \$10,000 if equal amount is raised locally.

Ga., Griffon—Clubhouse—Clubhouse Corp., care Mrs. Cooper Newton, plans to erect clubhouse.

Md., Baltimore—Clubhouse—Iroquois Canoe Club, Inc., Spring Gardens, acquired property in Lodge Forest on North Point Creek; has plans in progress by Ritter & Greise, Archts., for 2-story and basement building.

Md., Baltimore—Thos. Soriero, New York, and Geo. W. Funk, care Flink & Wilcox, Archts., 26 Pemberton Square, Boston, Mass., reported members of syndicate to erect \$1,000,000 to \$1,500,000 motion picture, store and office building, 311 N. Howard St.

N. C., New Bern—South Atlantic Yacht Club, care Senator F. M. Simmons, will erect yacht club in the fall.

S. C., Pickens—Pickens County, T. A. Bowen, County Agent, plans to erect buildings at Rocky Bottom Boys' and Girls' Camp, 20 miles from Pickens. (See Buildings Proposed—City and County.)

Tex., Dallas—Clubhouse—Dallas Woman's Club, Mrs. Harold Abrams, Pres., Stoneleigh Ct., purchased property, Rawlings and Coke Sts., facing Oak Lawn Park; plans to erect clubhouse.

Tex., Dallas—Orphanage—Reynolds Memorial Presbyterian Orphanage, Roland Martin, Treas., announced gift of \$28,000 for erection of fireproof nursery building to house 75 or 100 infants.

Tex., Gilmer—W. L. Dickson and other representatives of Dickson Colored Orphanage soon start campaign for \$50,000 for new buildings.

Tex., San Antonio—Home—Adams & Adams, Archts., Giggs Bldg., open bids April 25 for \$250,000, 3-story and basement, brick, stone and reinforced concrete frame, Protestant Orphans' Home building, Bandera Road near Woodlawn Ave.*

Tex., San Antonio—International Exposition, W. A. Wurzbach, Pres., Alamo Bank Bldg., announced plans under way for first unit of plant to ultimately cost \$500,000; race track, concrete grandstand to seat 5000, live stock barns, etc.

Tex., San Antonio—Scientific Society, 129½ W. Commerce St., has plans by August Herff

If the Manufacturers Record is mentioned.

In writing to parties mentioned in this department it will be of advantage to all concerned

CONSTRUCTION DEPARTMENT

Manufacturers Record

& Co., Archts., San Antonio Loan & Trust Co. Bldg., for remodeling Market House, Market St., near Main Plaza; new roof, floors and front.

Va., Richmond—King George Fair Assn., L. J. Billingsley, Pres., plans to erect fair buildings.

Railway Stations, Sheds, Etc.

Tex., Weimar—Southern Pacific Lines, H. M. Lull, Ch. Engr., Houston, reported to erect new depot.

Schools

Ala., Atmore—High School Building Committee, George E. Cadman, Sec., opened bids for erecting 2-story, 12-classroom and auditorium High School building; plans and specifications by Alabama State Department of Education, Montgomery.*

Ala., Goodwater—Patrons of Goodwater School decided to erect frame grammar school on site of burned building, and brick high school on Harris's Heights on Ashland St. Address Board of Trustees.

Ark., Hot Springs—School Board of Hot Springs School District plans to erect \$100,000 building, Oak and Olive Sts.

Ark., Lake Village—St. Mary of the Lake Academy has plans by J. W. Smith, Ouachita Bank Bldg., Monroe, La., for \$20,000, brick school building.

D. C., Washington—A. L. Harris, Municipal Archt., announced following work will be under contract by June: New wing and auditorium for Macfarland Junior High school, heating and electrical installation at Armstrong High, cottage for National Training School for Girls, hospital, laundry and proscenium curtains for stages in Western and Armstrong High schools; contracts probably be let early in fall for following elementary schools: Calvert, Brightwood, Brightwood Park and addition to Park View, Bruce and 2 new schools at Fifth and Buchanan Sts., N. W., and Fifth and Sheridan Sts., N. W.

Fla., Arcadia—DeSoto Parish Board of Public Instruction has plans in progress by F. J. Kennard, Krause Bldg., Tampa, for \$75,000, 2-story, 16-classroom, brick grammar school building; flat roof, wood floors, concrete foundation; considering erecting \$10,000 negro school building.*

Fla., Brownsville—DeSoto Parish Board of Public Instruction, C. H. Smith, Sec., has plans in progress by F. J. Kennard, Archt., Krause Bldg., Tampa, for \$25,000, brick and stucco elementary school; \$5000 for equipment and furnishings.*

Fla., Daytona Beach—Volusia County Board of Education, DeLand, considering calling bond election in School District No. 41, composed of Seabreeze and Daytona Beach. Address George P. Johnson, Pres. local School Board.

Fla., Delray—City voted \$80,000 bonds for new high school building. Address School Board.*

Fla., Frostproof—Polk County Board of Public Instruction, Bartow, called bond election for erecting \$120,000 school building in Frostburg School District. Address Board of Trustees.

Fla., Miami Beach—Miss Anna A. Ryan of Montemare Schools, announced plans for new school for boys, Pine Tree Drive.

Fla., Punta Gorda—Charlotte County Board of Public Instruction considering erecting school building on property donated by Del Verde Park developers.

Ga., Atlanta—Fulton County Board of Education selected Wm. J. J. Chase Archt., for new school building at Hope School, Piedmont Ave. and Peachtree Road; 10 classrooms, auditorium, library and office; selected S. S. Daniell of Daniell-Futrelle Co., Archt. for 8-classroom, fireproof school at Chattahoochee.*

Ga., Chattahoochee—See Ga., Atlanta.

Ga., Columbus—Board of Education, Roland B. Daniel, Sec., receives bids until May 12 for erection of High School building; separate proposals on construction, plumbing, heating and ventilating and electrical work; plans and specifications on file at office Starrett & Van Vleck, Archts., 8 W. 40th St., New York, and at office Hickman & Martin, Asso. Archts., 403-5 Swift-Kyle Bldg., Columbus, and may be secured from Asso. Archts.*

Ga., Greensboro—Board of Education has plans in progress by Scroggs & Ewing, Archts., Lamar Bldg., Augusta, Ga., for brick High School building.

Ga., Macon—St. Joseph's Church, Poplar St., has plans by Frank R. Happ, Archt., 4th National Bank Bldg., opened bids for erection of school building; 3 stories, \$60,000,

brick, Gothic type, 31 rooms; partition through center will divide school from home for priests; on ground floor—2 parlors, office, dining room, kitchen and pantry on residence side; 2 classrooms, 2 cloak rooms and rest room on school side; second floor—chapel, 4 bedrooms and library; classrooms, cloak rooms and science room on school side; bedrooms, classrooms and trunk room on third floor.

Ga., Macon—Bibb County Board of Education purchased property near Newberg School on Houston Road as site for proposed school building; select Archt. soon.

Ga., Talbotton—Talbotton Consolidated School District voted \$30,000 bonds for 12-room and auditorium, brick school building. Address J. A. Smith, Chmn. Board of Trustees.*

Ky., Bardwell—G. Tandy Smith, Archt., Paducah, preparing plans for \$25,000 school building. Address School Board.

Ky., Louisville—Board of Education announced additional gift of \$100,000 toward erection of trade school; Theodore Ahrens, the donor, recently gave \$150,000 toward establishment of school.

La., Bayou Barbary—Livingston Parish Board of Education, E. S. Easterly, Supt., Denham Springs, receives bids until May 9 for 1-story, frame building in 10th ward and 2-story, brick school in Springfield; plans and specifications may be obtained from Herman J. Duncan, Archt., 120 Murray St., Alexandria.

La., De Quincy—Calcasieu Parish School Board, Lake Charles, receives bids until May 14 for erection of high and elementary school building; bonds recently voted.*

La., Gretna—Jefferson Parish School Board will call election June 9 on \$600,000 school bonds.

La., Lafayette—Lafayette Parish School Board purchased Girard property in College Park addition as site for \$125,000 High School building; Wm. T. Nolan, Archt., Canal-Commercial Bldg., New Orleans.*

La., Springfield—See La., Bayou Barbary.

Md., Frederick—Frederick County Board of Education, Prof. G. Lloyd Palmer, Supt., opened bids for erecting schools at Creagers and Sabillasville, but bids were too high; soon ask for bids for schools at Liberty and Jefferson.*

Miss., Clara—Wayne County Board of Supervisors, Waynesboro, will call election June 3 on \$25,000 bonds for boys' dormitory at Agricultural High School.*

Miss., Kreole—See Miss., Pascagoula.

Miss., Monticello—Lawrence County Board of Supervisors called election for May 1 in Monticello Consolidated School District on \$40,000 bonds for buying grounds, erecting and equipping school building.

Miss., Pascagoula—Jackson County Board of Education, Mac Morgan, Supt., ordered consolidation of district to include Orange Grove and Kreole and erection of new school at Kreole; St. Martin's Consolidated School District votes May 2 on \$15,000 bonds for new building.

Miss., Purvis—Lamar County Board of Supervisors called election for May 2, in Hickory Grove Line Consolidated School District, on \$18,000 school bonds.

Mo., Carondelet (Sta. St. Louis)—Carondelet Township, St. Louis County, voted \$77,000 bonds for school building; Dr. B. F. Page and Wallace B. Bohlen, members Carondelet Township School Board.

Mo., East Prairie—School Board, Herbert Goza, Supt., plans to rebuild High School building recently burned; probably erect small building now and combined auditorium and gymnasium later.

Mo., Fayetteville—Howard-Payne College, Pres. McMurray, will erect conservatory of music building as initial step in building program to include library, chapel and gymnasium.

Mo., Joplin—St. Peter's Catholic Church, Rev. Wm. Brophy, Pastor, soon let contract for erecting 6-room parochial school, 8th St. and Byers Ave.; completed building also include second story, to contain auditorium seating 700, kitchen, serving room and lodge room; \$50,000 red brick trimmed with Carrizade stone, 135x60 ft.; H. W. Brinkman, Archt., Emporia, Kan.

Mo., Kirksville—City voted \$20,000 for 2 new school buildings; Charles Link and A. C. Biggsby, School Directors.

Mo., Poplar Bluff—Poplar Bluff School District voted \$75,000 bonds for 8-room grade school. Address Board of Trustees.*

Mo., Steelville—Steelville School District voted \$36,000 school bonds. Address Board of Trustees.

Mo., Tuscumbia—City voted \$12,000 bonds for new school building. Address School Board.

N. C., Bear Grass—Plans and specifications may be obtained from John H. Bonitz, Asst. Director of Schoolhouse Planning, Raleigh, for erection of 8-room, 1-story, standard school building; bids to be opened April 29 at office of Supt. R. A. Pope, Williamston.

N. C., Charlotte—School Board has plans by Louis H. Asbury for 9-room, brick veneer negro school building in Cherrytown.

N. C., Fayetteville—Stile S. Dixon, Archt., receives bids until May 4 for erection of school building in Eastover School District; plumbing and heating will be let separately; B. T. McBryde, Sec. Cumberland County Board of Education.

N. C., Greensboro—Guilford County Commissioners will borrow \$150,000 for County Board of Education for completing program and placing seats in school auditorium.

N. C., Hot Springs—Madison County Board of Education, Homer Henry, Sec., Marshall, receives bids until May 4 for 1-story, 8-room school building; plans and specifications may be obtained from John H. Bonitz, State Dept. of Education, Raleigh, or County Supt.

N. C., Jackson—Northampton County Board of Commissioners, S. J. Calvert, Clerk, called election May 23 in Woodland-Olney Special School District, on \$15,000 bonds for erecting, acquiring, enlarging, altering and equipping school buildings.

N. C., Powellsville—Plans and specifications may be obtained from John H. Bonitz, Asst. Director of Schoolhouse Planning, Raleigh, for erection of 8-room, 1-story, standard school; bids to be opened April 30 in Mr. Perry's store.

N. C., Wilmington—Rt. Rev. Monsignor Christopher Dennen, pastor of St. Mary's Catholic Church, announced \$2000 subscribed toward erection of school on Fifth Ave.

N. C., Winston-Salem—Forsyth County Board of Education has plans by Northup & O'Brien, Archts., opened bids for 9-room addition to Sedge Garden Consolidated school.

Okl., Davenport—Citizens voted \$45,000 bonds for erecting District High School building; 9 rooms and auditorium, brick, 1 story. Address Board of Education.

Okl., Norman—Sisters of Divine Providence, San Antonio, Tex., will erect girls' dormitory and State will erect two girls' dormitories at University of Oklahoma; \$600,000. Address Pres. Board of Trustees.

Okl., Tulsa—Board of Education, Frank Duncan, Pres., opened bids for erection of school buildings on North Cincinnati Ave.; 17th St. and Harvard Ave.; 17th St. and Lewis Ave. and addition to present Dunbar school; Leland I. Shumway, Archt., 725 Wright Bldg.

S. C., McBee—Board of Trustees, care S. P. Clemons, open bids in about 10 days for 1-story, brick, 8-room and auditorium High School building; composition shingle roof, pine floors, concrete foundation; Scroggs & Ewing, Archts., Lamar Bldg., Augusta, Ga.

S. C., Willington—De la Howe State School Board of Trustees, J. M. Nickles, Chmn., receives bids until May 5 for 2-story building; 6 dormitories, 2 school rooms, several private rooms, bath room and closets; granite walls, metal ceilings, plaster walls inside; G. Lloyd Preacher & Co., Archts., Atlanta, Ga.

Tenn., Chattanooga—School Board, J. S. Ziegler, Supt., purchased property adjoining Dickinson Junior High School for addition.

Tenn., Chattanooga—Hamilton County Board of Education, care J. V. Trotter, Chmn., soon call for bids for erection of first unit of St. Elmo-Alton Park High school; 2 stories, brick and concrete, 40x150 ft. \$75,000.

Tenn., Kingsport—Mayor and Board of Aldermen receive bids this week for excavation and concrete foundation for high school building, to be erected at Linnville and Wateree Sts.; Allen N. Dryden, Archt., 558 Main St.; F. L. Cloud, City Mgr.*

Tenn., Memphis—City and Shelby County voted \$6,000,000 bonds, including \$375,000 for county school improvements and \$750,000 for city school improvements; first step will be erection of \$150,000 negro school at Lauderdale St. and Broadway.*

Tex., Austin—School Board, A. N. McCallum, Supt., contemplates \$100,000 bond issue for improvements to 6 ward schools and to complete work on Junior High School; plan remodeling and enlarging Pease, Mathews, Metz, Bickler, Winn and Fulmore schools and 6-room addition to Fulmore; \$58,000 now available for Winn, Mathews and Metz schools.*

Tex., Austin—Board of Education, Dr. Geo. F. L. Cloud, City Mgr.

N. Decherd, Pres., plans additional ward school building improvements to cost \$103,000; call bond election in near future.

Tex., Austin—University of Texas Board of Regents, E. J. Matthews, Sec., approved plans by Herbert M. Greene Co., 620 North Texas Bldg., Dallas, for \$350,000 to \$375,000, 3-story and basement, brick, stone and reinforced concrete, 155x83 ft., Recreation Building; reinforced concrete frame, tile roof, concrete floors, plaster, steam heat, etc.*

Tex., Ben Bolt—Board of Education soon let contract for \$17,000, tile and stucco, 4-room and auditorium school building; R. H. Milton, Archt., Corpus Christi.

Tex., Brownsville—El Jardin District voted \$85,000 bonds for new school building; Earl Walker and Chester Walker, members School Board.

Tex., Callahan—Board of Education, J. C. Landers, Chmn., has preliminary plans by Henry T. Phelps, Archt., Hicks Bldg., San Antonio, for \$18,000, 1-story, hollow tile and stucco school building.

Tex., Carey—Carey School District Board of Trustees receives bids April 28 for \$10,000, 4-room and auditorium, brick and concrete school addition.

Tex., Cleo—Cleo District voted \$17,500 bonds for new brick school building. Address Board of Trustees.*

Tex., Georgetown—Southwestern University, J. Sam Barcus, Pres., receiving bids for \$225,000, 3-story, brick, stone and reinforced concrete, 38x311-ft. woman's building and fireproof, brick, stone and reinforced concrete, 35x135-ft. dining hall building; C. B. Schaeppel & Co., Archts., Humble Bldg.*

Tex., Greenville—C. P. Neville, permanent Chmn. of Committee to raise \$50,000 for rebuilding girls' dormitory at Burleson College, recently burned. Address Pres. Board of Trustees.

Tex., Harlingen—Harlingen Independent School District voted \$100,000 school improvement bonds. Address Board of Trustees.

Tex., Hood—Hood Independent School District Board of Trustees considering calling \$17,000 bond election for erecting new school building.

Tex., Jourdanton—Jourdanton Independent School District voted \$35,000 bonds for brick and concrete school building. Address Board of Trustees.

Tex., Littlefield—School Board, Littlefield Independent School District, care Arthur P. Duggan, call election May 2 on \$100,000 school bonds.*

Tex., Mexia—Mexia Independent School District voted \$100,000 bonds for improving 2 grammar schools; L. H. Leinbach, Archt., Deere Bldg., Dallas.*

Tex., Newton—Newton Independent School District voted \$30,000 bonds for erecting new building and remodeling present building.

Tex., Newton—School Board Newton Independent School District has plans in progress by C. H. Leinbach, 503 Deere Bldg., Dallas, for \$30,000, brick and concrete High School building; J. S. Peters, Sec., opens bids April 27.*

Tex., Ralls—Ralls Independent School District voted \$65,000 bonds; plans in progress; Lawrence Kerr, Amarillo, for \$50,000, 2-story, brick and concrete, 69x157 ft. High School; wood and concrete floors, concrete foundation, tar and gravel roof, metal ceilings.

Tex., Rosenberg—Board of Education soon select Archt. for \$40,000, fireproof, brick, stone and reinforced concrete school building.

Tex., San Antonio—School Board, A. S. Pike, Sec., receive bids after May 1st for 1-story, brick, concrete and tile junior high school; 1-story, 6-room, Mexican school and frame economics building; \$75,000; Harvey P. Smith, Archt., Natl. Bank of Commerce Bldg.

Va., Abington—Town Council will call election April 28 on \$50,000 bonds for new school building.

Va., Leesburg—School Board will start work in May on High School building to replace structure burned; excavation, foundation and part of exterior walls will be used; principal's office, library and 12 classrooms will be erected on present foundation; in basement, rooms for domestic science, kitchen, pantry, manual training, chemical laboratory, etc.; C. H. Harrison, Mayor.*

W. Va., Mannington—Mannington School District Board of Education purchased property Locust St. and Furbee Ave.; plans to erect High School building.

W. Va., Martinsburg—Martinsburg Independent School District Board of Education, L. W. Burns, Supt., will call election June 2 on \$310,000 bonds for High School building.*

In writing to parties mentioned in this department it will be of advantage to all concerned

Stores

Ala., Opelika—J. T. Frederick Furniture Co. purchased Opelika Sales Store; will improve and probably add another story.

Ala., Tuscaloosa—James Alston is razing Indian Queen Hotel, Broad St. and 25th Ave.; will replace with five 1-story brick business houses; \$15,000.

Fla., Daytona Beach—Charles E. Edmonds, Westfield, N. J., purchased property on Main St., plans to erect business building.

Fla., Hollywood—J. P. and S. M. Morse of New York and Boston soon start work on \$75,000, 2-story arcade building, Hollywood Blvd., between Second and Third Aves.; arcade 12 ft. wide on first floor with 6 stores on each side; 18 offices above.

Fla., Jacksonville—South Atlantic Investment Corp. has plans by Marsh & Saxby for \$30,000, 2-story, tile and brick, 60x80 ft. store and office building; oak floors, concrete foundation, Barrett specification roof, ventilators.

Fla., Leesburg—A. S. Herlong, Leesburg, T. J. Cancelmo, 113 Dock St., Philadelphia, Pa., and D. P. Sweeney, Boston, purchased property on Main St. between Fifth and Sixth Sts.; plan to erect 2-story arcade building.

Fla., Miami—Mrs. Margaret McCrimmon, 1552 S. W. 1st St., will erect \$15,000 store building.

Fla., Ocala—Ocala Development Co., Wayne C. Gilman, Pres., Daytona, leased Robertson Building; will remodel and probably add 1 or 2 stories.

Fla., St. Augustine—Senator T. J. Campbell of West Palm Beach and Vero purchased Chautauqua Hotel, King St.; will replace with business building to contain stores with offices and apartments above.

Fla., St. Petersburg—W. McKee Kelley, 659 Central Ave., heading syndicate, purchased property at 817 Second Ave., will erect business building.

Fla., Sarasota—Wm. C. Hale, Miami, will erect 2-story, concrete and stucco building, Seventh St. near Central Ave.

Fla., Vero—Hutchinson, Hill & Young have plans in progress by Wm. Manly King, Archt., West Palm Beach, for 2-story, Spanish type store and hotel building, 21st St. and Pueblo Ave.; 6 stores with 28 hotel rooms above.

Ga., Thomasville—Louis Steyerman, reported to remodel 3 store buildings into department-store building.

Ky., Ashland—Buckley Brothers Furniture Store started work on 2-story addition to cost \$12,000 to \$15,000.

Ky., Hazard—Barney Baker will erect \$20,000 business building on Broadway.

Ky., Hazard—L. M. Hubbard will erect business block and residence; contract at once.

Md., Baltimore—Caughy & Co., 220 E. Lexington St., leased building for clients at 216 E. Baltimore St.; plan extensive improvements.

Md., Baltimore—John Eigner, Holder Ave., plans to erect store building, 5101 Holder Ave.

Md., Baltimore—The Van Co., 14 N. Charles St., has plans for new front and remodeling to cost \$12,000.

Md., Baltimore—Louis Cohen acquired property, 217 N. Calvert St., plans to erect 3-story rear addition and remodel present building.

Miss., Natchez—I. Levy purchased Frank Building, Main and Pearl Sts.; will remodel and probably add 1 or 2 stories; J. White, Archt., New Orleans, La.

Miss., Tupelo—I. H. McCollum will erect two 1-story, brick business buildings, Jefferson St.

Mo., Kansas City—J. L. Woolfolk, 406 Huntzinger Bldg., will erect \$20,000 brick structure, 3901 Troost Ave.

Mo., Kansas City—Whyte Brothers will erect \$18,000, brick building, 4617-23 Troost Ave.

N. C., High Point—Payne & Veach will erect \$20,000, 2-story, 3-room, brick building, W. High St.

N. C., Raleigh—Griffin & Bland will erect building running through block from Fayetteville to Salisbury Sts.; to be occupied by Royal & Borden Furniture Co.; Alfred Williams will erect store and office building adjacent to Sir Walter Hotel, extend half way through block; both 2 stories and cost \$150,000; Harry P. S. Keller, 129 Hillcrest St., Archt. for both.*

Okl., Oklahoma City—Misses L. M. and L. U. Queenan, 726 W. Fourth St., will erect \$30,000, 2-story, brick building, Third St.

and Hudson Ave.; store and restaurant on first floor; apartments above.

Okla., Tulsa—Susie M. Brannon will erect \$18,000 store and apartment building, 1325 E. Sixth St.

Tenn., Memphis—Chickasaw Building Co., owner of John Gerber Co.'s department store building, Main St., plans expansion.

Tenn., Memphis—E. L. Harrison, Archt., Fidelity Bk. Bldg., preparing plans for remodeling building at 144 S. Main St. for Perel & Lowenstein; \$35,000.

Tex., Beaumont—Judge E. B. Pickett contemplates erecting \$35,000 to \$45,000, brick and hollow tile or concrete, fireproof, 2 or 3-story, 100x100 ft. business and office building.

Tex., Calvert—Howell & Co. soon start work on \$13,000, 1-story, brick and tile store building.

Tex., Dallas—H. J. Cohn, 2518 South Blvd., will repair fire damage at 2101-3 Commerce St.; \$12,400.

Tex., Dallas—Sol P. Jones will expend \$10,500 for repairs to fire damage at 2105-7 Main St.

Tex., Dallas—T. R. Peacock, 611 Haines St., will erect 7 brick stores, 800-2-4 Comal St.; \$16,000.

Tex., Denton—Smoot-Curtis Co. opened bids for erection of building, N. E. corner of square.

Tex., Fort Worth—W. C. Hedrick will erect \$15,000 stores, 1301 Hemphill St.

Tex., Greenville—R. O. Hudspeth and W. B. Wise have plans in progress for brick business building, Pickett between Stonewall and Johnson Sts.

Tex., Greenville—Mrs. Eula Phillips plans erection of brick building on Pickett between Stonewall and St. John Sts.

Tex., Greenville—I. M. Stringer plans to erect brick building facing Johnson St.

Tex., Lubbock—Mrs. Jessie Summers contemplates erecting \$75,000, 2-story, brick and concrete, 90x130 ft. business building and dormitory; accommodate 60 girls.

Tex., San Benito—E. Pupkin will erect \$16,000, 1-story, brick and concrete, 50x100 ft. store building.

Tex., Taft—Cole Hardware & Furniture Co. started excavation on Green Ave. for brick store building.

Theaters

Ala., Birmingham—Marvin Wise Theaters Co. will start work immediately on \$30,000 theater building, 3207 Bessemer Blvd., Central Park, to be known as Central Park Family Theater; 400 seats.

Ark., Arkadelphia—Cecil Cupp, Mgr. of Royal Theater, will expend \$10,000 for renovations and improvements; will add balcony to seat 200.

Miss., Hattiesburg—Plaza Amusement Co. will make extensive improvements to Strand Theater, East Front St., work to start August 1; John A. Grower, Mgr.

Mo., St. Louis—Skouras Brothers Enterprises, New Grand Central Theater Bldg., have completed plans by C. W. and Geo. L. Rapp, 190 N. State St., Chicago, Ill., for \$5,500,000, 17-story Ambassador Theater and office building, N. W. cor. Seventh and Locust Sts.; 164x131 ft., tower will extend 7 additional stories above, fireproof, structural steel frame work; 9 shops on first floor with 500 offices above, restaurant in basement; 5 high-speed passenger elevators, marble wainscoting corridors, hardwood office floors; theater auditorium to have capacity of 3500 seats, cooling plant.

N. C., Asheville—Carl Bamford, 210 Merriman Ave., has permit for remodeling building, E. College St., for moving picture house; \$10,000.

Tenn., Athens—H. N. Manning, owner and operator of Strand Theater, plans to erect new theater building; 30-ft. stage; 500 seats.

Tex., Lockhart—A. D. Baker purchased 2 lots on E. Market St.; will erect theater building.

W. Va., Berkeley Springs—Mr. Dunn, owner of Palace Theater recently destroyed by fire, will rebuild; will use present walls and foundation.

Warehouses

Ala., Birmingham—Hahn Foreman will

if the Manufacturers Record is mentioned.

erect \$14,000 warehouse and garage, Avenue B between 19th and 20th Sts., South.

Ala., Flomaton—Flomaton Warehouse Co., R. G. Crafton, Pres., will erect 50x80 ft. warehouse.

Fla., Miami Beach—Clark Dredging Co., 356 S. W. North River Drive, has plans by Ellis & Co., Metropolitan Bldg., Miami, for erecting 2-story, cement block, stuccoed office and warehouse building; oak and cement floors.

Ga., Rome—Georgia-Alabama Warehouse Co., Paul White, Pres., will erect addition to building, E. Fourth St.

Ga., Valdosta—Dr. E. P. Rose, J. R. Dasher and A. J. Strickland will erect \$40,000, 100x300 ft. warehouse on River St.

Tex., Dallas—Rae Skillern and Burns Aston will erect \$20,000, 50x125 ft., 1-story, brick warehouse and office building, 420-2 Pearl St.; foundation to carry 2 additional floors.

Sunday School unit of Grace Covenant Presbyterian Church, Poplar Ave. and Claybrook St., to be erected by Alabama Street Presbyterian Church; plumbing, Pritchard Bros.; brick and stone, slate and composition roof, 60x110 ft., concrete and pine floors, concrete foundation, hollow tile; Joe T. Wallace, Archt., Bank of Commerce Bldg.; Clinton Building Co., Contr., Scimitar Bldg.*

Tex., Uvalde—Methodist Church let contract at \$11,776 to J. M. Oldham for 1-story, brick veneer, rear addition; Will N. Noonan, Archt., Moore Bldg., both San Antonio.*

Va., Fredericksburg—Fairview Baptist Church let contract to Walter Snellings for 2-story brick building; plans by Sunday School Board, Southern Baptist Convention, Nashville, Tenn.

W. Va., Huntington—Calvary Negro Baptist Church, Rev. S. V. Smith, pastor, let contract, at \$48,556, to J. E. Perry for building, Third Ave. near Seventh St.; brick, 65x90 ft.; auditorium, including balcony, seat 1200; 16 classrooms; Levi J. Dean, Archt., Simms Keller Bldg.

City and County

Okla., Eufaula—City let contract to Muskogee Construction Co., Muskogee, for city hall and jail building.*

Okla., Tablequah—Cherokee County is remodeling jail. Address County Comrns.

Tex., El Paso—El Paso County has started work on \$120,000 addition to jail; accommodate 150 prisoners; insane ward to accommodate 20; clinic. Address Judge of Commissioners' Court.*

Tex., Goose Creek—City will erect library, gift of R. L. Sterling; Jas. M. L. West, Contr., both Houston.

W. Va., Martinsburg—Hose Company No. 3 let contract to W. H. Milburn for brick fire station, Winchester Ave.; 2 stories, about 30x60 ft.; hall on second floor.*

Dwellings

Fla., Fort Lauderdale—Allison, Forrey & Kyle have completed concrete foundations for 10 dwellings, Idlewild; tile and concrete, 2 stories, hardwood floors, tile roofs, hollow and interior tile, metal ceilings, plaster board; total cost \$100,000; Geo. Young, Contr. Address Francis L. Abreu, Archt.*

Fla., Miami—Miss Sophie Irene Loeb, care Child Welfare League, New York, is erecting dwelling, First St. near Lake Ave., Normandy Beach.

Fla., Miami Beach—A. F. McAllister will erect \$17,000 residence, Sunset Lake subdivision; L. R. Langbein, Archt.; Holey & Langbein, Contrs.

Fla., Orlando—Carl Dann, San Juan Hotel Bldg., will erect \$28,000 residence, Hillcrest Ave. and Cathcart St.; 2½ stories, 50x75 ft., including porches, stucco, tile roof and terraces, 2 cedar closets, tile kitchen floor, tile bath, shower; L. C. Townsend & Co., Contrs., Davis-Hyde Bldg.

Fla., Sarasota—B. L. Hamner Building Syndicate, 307 Stovall-Nelson Bldg., Tampa, C. M. Johnson, Jr., Manatee and Sarasota County representative, 211 Main St., Sarasota, desires sub-bids on plumbing and electric work and septic tanks in connection with erection of 10 frame dwellings, Palm Grove subdivision; cost about \$2500 to \$3000 each, 4, 5 and 6 rooms, 1 story, Oregon fir floors, cement block foundations, slate surfaced shingle roofs, plaster board; items to be purchased include lumber, hardwood, sheetrock, roofing, masonry, paints and oils, etc.; designed by Aladdin Co., Bay City, Mich.; owner builds and will probably erect 100 additional dwellings. Address Mr. Johnson.*

Fla., St. Petersburg—Alpine Lucas has started work on \$35,000 residence, Jungle sub-division; 12 rooms, hollow tile and stucco, Italian type; A. P. Hennessy Contracting Co., Contr., 435 6th Ave., S.

Fla., St. Petersburg—P. J. McDevitt, Pinellas Park, care Allen-Fuller Corp., will supervise erection of 6 dwellings, Jungle County Club Rd., Jungle sub-division; total cost \$75,000; Roy Wakeling, Archt., 536½ Lee St.

Fla., Tampa—F. W. Cady, Glencoe, Ill., is erecting \$40,000 stucco residence, Lake Osceola.

Fla., Tampa—Wm. Justice Lee, care Chase & Co., is erecting \$35,000 residence, Interlachen Ave. at Lake Osceola; 2 stories, stucco, Colonial type.

Fla., West Palm Beach—S. P. Snyder will erect \$19,000 frame and stucco residence and garage, Gruber-Carlberg Addition; Newton & Stephens, Contrs.

Fla., West Palm Beach—G. H. Vallowe will erect \$30,000 frame, tile and stucco resi-

BUILDING CONTRACTS AWARDED

Association and Fraternal

Tenn., Knoxville—Young Women's Christian Assn., W. J. Savage, Chmn. Bldg. Comm., let contract for \$200,000 building to Gervin & Gervin; plumbing and heating, Knoxville Plumbing Co., 308 W. Church St.; wiring, Warner Service Co.; 4 stories and basement; Barber & McMurray, Archts., 425 W. Clinch Ave.; Louis E. Jaihade, Consrt. Archt., 129 Lexington Ave., New York.*

Bank and Office

Ala., Birmingham—American Cast Iron Pipe Co. has completed foundation for \$18,000 office addition, 16th St. and 30th Ave.; brick and concrete, 2 stories, 32x40 ft., concrete, tile and wood floors, slate roof; plans and construction by Company's engineers; steam heating, Dave Jones; plumbing, Veitch Plumbing Co., Osceola Sta.; all contracts let.*

Fla., Englewood—Englewood Bank, organized with Ira Rigdon as Pres. and let contract for 2-story, concrete and stucco building, State Rd. No. 5 and Willow St., bank and store on first floor, offices or apartments above.

Fla., Homestead—Bank of Homestead let contract to remodel and add 1 story to present structure, Krome Ave., and erect 2-story fireproof addition, Mowry St.; cost \$65,000.

Fla., St. Augustine—Florida East Coast Railway Co., W. G. Brown, Engr. of Maintenance of Way, let contract to W. P. Thurston Co., Windsor Court Apt., Richmond, Va., for \$200,000 fireproof general office building, King and Malaga Sts.; reinforced concrete, steel, brick and terra cotta, 4 stories, 50x100 ft., concrete, wood and tile floors, concrete on wood pile foundation, Barrett specification roof, interior tile, ornamental terra cotta; plans by company's architect.

Fla., Tampa—E. H. Tatum, and C. B. Ragland, 152 Second Ave., S., Nashville, Tenn., let contract at \$26,000 to Logan Bros., 918 Citizens Bank Bldg., for brick and concrete building for Franklin Bank; 2 stories, 52.6x75 ft., cement, tile and hardwood floors, concrete foundation, metal roof; 2 stores and banking quarters on first floor, offices above; furnishings, equipment, etc., \$10,000, not let.*

Fla., Tampa—Citizens Bank & Trust Co., 702 Franklin St., Louis A. Bize, Pres., let contract to G. A. Miller, 28 Petteway Bldg., for 2 additional stories to 10-story structure, Franklin and Zack Sts.; cost \$125,000, brick and reinforced steel, elevator express; 1 floor for lawyers; will remodel main lobby to provide 10 additional tellers' offices; Francis J. Kennard, Archt., Krause Bldg.*

Mo., St. Louis—Grand Avenue Bank, 503-07 N. Grand Ave., will alter 2-story brick bank bldg.; Wm. B. Ittner, Archt., Board of Education Bldg.; St. Louis Bank Equipment Co., Contr., 811 Walnut St.

Tenn., Memphis—Brown Coal Co., Exchange Bldg., will remodel building, 18-22 S. Main St.; 3 stories, 50x200 ft., tar and gravel roof, interior tile, metal ceilings and doors, plaster board, ventilators, steel sash and trim; E. L. Harrison, Archt., Fidelity Bank Bldg.; F. J. Ozanne & Co., Contrs., 310 Empire Bldg.; heating, Hughes Heating Co., 248 Court St.; electric work, Electric Novelty Co., 124 Monroe St.; plumbing, Pritchard Bros., 433 Madison St. (Lately noted under Stores)*

Tex., Corpus Christi—City National Bank let contract at \$132,960 to Jay DePuy, Bedell Bldg., for 6-story fireproof addition to 4-story building; reinforced concrete, 40x125 ft., cement floors, reinforced concrete foundation, 5-ply asphalt and gravel roof, hollow and interior tile, vaults, ventilators, mail chutes, elevators, refrigerating equipment, steel sash and trim, wire glass; Ralph H. Cameron, Archt., City National Bank Bldg.; Willard E. Simpson Co., Struct. Engr.,

National Bank of Commerce Bldg., all San Antonio; sub-contracts not let.*

Tex., Corpus Christi—Corpus Christi National Bank let contract on cost plus basis to Summer-Sollitt Co. to remodel building; John M. Marriott, Archt., Frost Bldg., both San Antonio.

Tex., Houston—Niels Esperson Estate, Second National Bank Bldg., let following contracts for 25-story office building, Travis St. and Rusk Ave.: Excavation, foundation and lower supporting walls, Townsend & Walling, Capitol and St. Emanuel St.; 1200 concrete piles, 24 ft. long, Raymond Concrete Pile Co., 140 Cedar St.; fabricated steel, American Bridge Co., 71 Broadway, both New York; cost \$2,000,000, Italian renaissance type, base of Texas granite, Bedford limestone tower, polychrome glazed terra cotta frieze, 150x151 ft.; 2 sub-story and open court garage; repair, accessory and filling station; ladies' rest room and men's gymnasium on top floor; 3 domes; John Elberson, Archt., 212 E. Superior St., Chicago, and Majestic Theater Bldg., Houston.*

Tex., Normangee—First State Bank has started work on 2-story brick addition, rear of present structure.

Churches

Ala., Bessemer—Seventh Street Baptist Church, Rev. Jas. May, pastor, is excavating for concrete block building.*

Ark., Smackover—First Methodist Church, J. D. B. DeYampert, member, Bldg. Comm., let contract to A. C. & J. C. O'Neal, Hope, for building, Broad and Seventh Sts.; Witt, Seibert & Halsey, Archts., Texarkana, Ark.-Tex.*

Fla., Palmetto—Baptist Church, Rev. S. B. Cole, Pastor, will complete building; foundation laid.

Ga., Augusta—Curtis Baptist Church, Rev. E. C. Sheridan, pastor, 1341 15th St., let contract at \$83,890 to C. H. Van Ormer for 3-story auditorium, 1300 block Broad St.; 70x130 ft.; furnishings, equipment, etc., \$10,000; Serogs & Ewing, Archts., Lamar Bldg.*

Ky., Fulton—Baptist Church let contract to Valentine Bros. for building; G. Tandy Smith, Archt., Paducah.*

Ky., Hodgenville—Baptist Church will erect \$48,000 building; G. Tandy Smith, Archt.; Cole Construction Co., Contr., both Paducah.*

La., Lafayette—St. John's R. C. Church is erecting \$40,000 brick chapel; accommodate 600. Address The Pastor.

La., New Orleans—Following contracts let for Rayne Memorial M. E. Church, South, for Rayne Memorial M. E. Church, South, contract at \$52,267: Glazing, Peter Brand, 1331 Second St.; marble, Albert Weihen Marbles & Granite Co., 521 City Park Ave.; plumbing, A. S. Chevis, 1135 Carondelet St.; painting, A. Schnyder, 3615 Magazine St.; tiling, Eugene J. Zimmerman, 1214 N. Rampart St.; waterproofing, D. S. Melvin, Whitney Bldg.; Emile Weil, Archt., Whitney Bldg.*

Mo., St. Louis—German Evangelical Synod N. A., 2013 St. Louis Ave., let contract for \$27,000 stone and brick church, 1821-23 Hickory St., to Geo. Moeller, 3520 Itasca St.; 1 story and basement, 53x59 ft., maple floors, stone foundation, Certain-Teed roof, ornamental terra cotta, steel sash and trim, wire glass, vapor steam heat; furnishings, equipment, etc., \$10,000; items to be purchased include chairs and gymnasium equipment, address Rev. August E. Binder, 1823 Hickory St.; Leonard Haeger, Archt., 3844 Utah St.*

Mo., University City (Station St. Louis)—University City M. E. Church, Washington and Trinity Sts., will erect \$100,000 stone addition, 60x110 ft., composition flat and slate steep roof, extend present steam heating system; Albert B. Groves, Archt., 314 N. Fourth St.; W. H. Mills, Supt. of Constr., Chemical Bldg., both St. Louis.

Tenn., Memphis—Hughes Heating Co., 248 Court St., has heating contract for \$50,000

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dence, Vallowe Court; Newlon & Stephens, Contrs.

Ga., Augusta—Walter Clark, Highland Ave., will erect addition to residence; Scroggs & Ewing, Archts., Lamar Bldg.; contract let.

Ga., Dalton—Boylston-Crown Mills let contract to LaGrange Lumber & Supply Co., LaGrange, for 27 cottages.

La., New Orleans—L. Apperman has plumbing contract for 12 Spanish and Moorish type bungalows, St. Charles Ave. and Marengo St., for Guaranty Development Co.; frame and stucco; Wm. E. Spink, Archt., Canal-Commercial Bldg.; C. E. Wilson, 306 Canal-Commercial Bldg., gen. contract at \$74,789, exclusive of walks, curbs, guttering and heating systems. Mr. Wilson desires sub-bids on painting and plastering; will purchase building material.*

La., New Orleans—Mrs. Thos. S. Waterman and Conservative Homestead Assn. will erect \$11,000 duplex residence, Pitt and Pratania Sts.; Denis & Handy, Contrs.

La., New Orleans—Jackson Homestead Assn. will erect \$10,800 frame duplex, Julia and Catina Sts.; Roger E. Pelletier, Contr., Marine Bank.

Md., Baltimore—Chas. Overton, 1424 Harlem Ave., will erect frame residence and garage, 3914 Norwood Ave.; 2½ stories, 26x28 ft., slate roof, hot water heat, cost about \$10,000; A. W. Smith, Archt.; A. T. Jones, Contr.

Md., Baltimore—Jasper D. Ogden, Equitable Bldg., will erect 18 brick dwellings, N. W. cor. Arlington St. and Fairview Ave.; brick, 2 stories, 18x32 ft., hardwood floors, concrete foundation, composition roof, hollow tile; total cost \$90,000; Fredk. E. Beall, Archt., 306 St. Paul St.; owner builds.*

Md., Baltimore—City Real Estate Co., 11 E. Fayette St., will erect 40 dwellings, 3100 block Belmont Ave.; 2 stories, brick; total cost about \$96,000; also 4 frame dwellings, 4723-29 Hamilton Ave.; 2 stories, 26x28 ft., slate roofs; total cost \$10,000; Geo. Wessel, Archt., 3001 Lyttleton Rd.; owner builds.

Md., Baltimore—C. Edgar Wood, Harford Rd., will erect 10 frame dwellings, N. side Clearview Ave. near Shadowlawn Ave.; 1½ stories, 25x28 ft., shingle roofs, steam heat; total cost \$42,000; G. E. Green, Archt.; owner builds.*

Md., Baltimore—Younger & Riddle, 4417 Meriwent Ave., will erect 2 frame dwellings and garages, 4506-08 Meriwent Ave.; 2 stories, 27x29 ft. and 12x20 ft., slate roofs, steam heat; total cost \$15,000; plans and construction by owner.

Md., Baltimore—Merton Realty Co. will erect 3 frame bungalows, S. side Glen Ave.; 1½ stories, 26x28 ft., slate roofs, steam heat; total cost about \$10,000; Stanislaus Russell, Archt., 11 E. Lexington St.; owner builds.*

Md., Baltimore—Owners Realty Co., 2 E. Lexington St., is erecting stone foundations for 4 brick and stone dwellings, S. side Lyttleton Rd. near Ellicott Driveway; cost \$5,000 each, 2 stories, 20x34 ft., hardwood and pine floors, composition roofs, hollow tile; Fredk. E. Beall, Archt., 306 St. Paul St.; steam heating, electric wiring and plumbing not let.*

Md., Baltimore—Driveway Realty Corp., 8 E. Lexington St., will erect 4 brick dwellings, W. side Harford Rd. N. of Bauerwood Ave.; 2 stories, slag roofs, steam heat; total cost \$10,000; D. Aldridge, Archt.; H. W. Reinhart, Contr.

Miss., Ripley—Mrs. Roach will erect residence, First South St.; Drewery & Craig, Contrs.

Mo., St. Louis—DeTonty Realty Co., 624 Chestnut St., will erect 5 brick dwellings, 5624-30-32-34-36 Mimika St.; 1 story, 22x33 ft., composition roofs, furnace heat; total cost \$10,000; J. Hartman, Contr., 6824 Virginia St.

Mo., St. Louis—W. B. Sommers, 4325 N. 14th St., will erect 2 brick dwellings, 5729-33 Kingshighway; 2 stories, 28x33 ft., tile roofs, hot water heat; total cost \$12,000; G. Becker, Archt.; owner builds.

N. C., Greensboro—L. C. Lane, 830 Olive St., has laid foundation of \$11,000 brick veneer residence, Wentworth Ave.; 2 stories, 40x39 ft., hardwood floors, 2 baths; J. P. Lanning, Archt.-Contr.; plumbing, Hunt Bros.; hot-water heating and electric work not let.*

N. C., Greensboro—Dr. C. I. Carlson, 114 W. Sycamore St., is excavating for \$60,000 residence, Sunset Drive, Irvin Park; first story stone, second frame and stucco, 2 stories and attic, about 40x90 ft., oak and tile floors, concrete foundation, slate roof; sub-contracts not let; A. Ramon Ellis, Archt.,

36 Pearl St., Hartford, Conn.; C. J. McMichael, Contr., 526 Guilford Ave., desires bids on plumbing, heating and tile.*

N. C., Greensboro—C. F. Chapin, Mgr. Director, Vick Chemical Co., Pomona, is excavating for \$50,000 residence, Irving Park; hollow tile and stucco, 2 stories and attic, about 36x100 ft., oak and tile floors, concrete foundation, tile roof; sub-contracts not let; A. Ramon Ellis, Archt., 36 Pearl St., Hartford, Conn.; C. J. McMichael, Contr., 526 Guilford Ave., desires bids on plumbing, heating and tile.*

' Okla., Warner—Trojan Coal Co., Muskogee, has started work on 25 miners' dwellings.

S. C., Alken—Eve Repair Co. has contract for electric work in \$65,000 frame and stucco residence for Thos. Hitchcock; 3 stories, yellow pine floors, brick foundation, asbestos shingle roof, plaster board; Peabody, Wilson & Brown, Archts., 140 E. 39th St., New York; Sibert & Robison, Contrs., Augusta, Ga.; heating, plumbing and roofing, E. J. Erbelding & Sons, \$15,000.*

S. C., Columbia—Mechanics Contracting Co. will probably receive contract for Lorick residence, Wales Gardens; Lafaye & Lafaye, Archts.

S. C., Gaffney—Miss Bertie Phillips let contract to E. B. Hiskey for 2-story Colonial residence.

S. C., Sumter—G. P. Knowles has contract to erect residence for Mr. McClam; Benson & Barbot, Archts., Charleston.

Tenn., Knoxville—J. D. Carringer let contract to B. L. Chamber for Colonial residence, Scenic Drive; 2 stories, 10 rooms, hollow tile, tile roof, 2 baths, swimming pool.

Tenn., Knoxville—Dr. C. B. Jones, Holston Bank Bldg., let contract to A. H. Whisman, Market St., for \$10,000 buff brick Colonial residence, Scenic Drive, Shawnee Wood addition; 2 stories, green tile roof, 2 baths with showers, sun parlor, steam heating, garage; A. B. Baumann & A. B. Baumann, Jr., Archts., 813½ Market St.*

Tenn., Knoxville—Earl S. Worsham, Bidr., is excavating for residence, Kingston Pike.

Tenn., Memphis—Mrs. Geo. Wallace, 1543 N. Parkway, has started work on English type residence, Hein Park; Arkansas sandstone and half-timber, English red tile shingle roof, tile, slate and other floors, 4 baths; J. Frazer Smith and H. M. Burnham, Archts., Goodwyn Inst.; R. F. Howell, Contr., 2652 Harvard St.; plumbing, Mee & Heisler, 260 Vance St.

Tenn., Memphis—Vernon E. Schevenell, 1779 Autumn St., Pres., Memphis Chapter, Associated General Contractors of America, will erect residence, McLean Blvd. near Central Ave.; field stone, tile roof, hardwood interior finish; Geo. Mahan, Jr., Archts., 434 N. McLean St.

Tex., Calvert—H. M. Ryman will erect \$12,000 duplex; frame, 2 stories, 12 rooms; Einer H. Stubbe, Archt.-Constr. Supervisor, 4510 Main St., Houston; owner builds.

Tex., Corpus Christi—J. W. Godwin Broadway & Railroad Ave., will erect \$10,000 residence by day labor; 2 stories, stucco; R. H. Milton, Archt.

Tex., Houston—M. M. Gordon, 4100 Mt. Vernon St., will erect \$18,000 residence, 3323 Yoakum Blvd.; 7 rooms, 2 baths, brick veneer, tile roof; C. B. Schoeppel Co., Archt.-Contr., Humble Bldg.

Tex., Houston—J. W. Link, Jr., 2204 Fanin St., will erect \$12,000 residence, 517 Lovett Blvd.; brick veneer, tile roof, 7 rooms, 2 baths; C. B. Schoeppel Co., Archt.-Contr., Humble Bldg.

Tex., Houston—Jas. M. L. West, Bidr., 3007 N. Main St., will erect \$17,000 residence, Country Club Estates; hollow tile and stucco, 2 stories.

Tex., Lubbock—J. W. Gemel, Mgr., Miner-Gamel Dry Goods Co., is erecting residence, Main St.

Tex., San Antonio—A. E. Rheiner, 111 Newton St., plans to erect frame or brick residence, 200 block Buckingham Ave.; 5 or 6 rooms; owner builds.

Tex., San Antonio—Mrs. Ruth E. Zeigler, 605 W. Park Ave., will erect 2-story residence, Woodlawn Place; 8 rooms, probably tile and stucco; J. C. Arnold, Contr., 1400 McIlvane St.

W. Va., Huntington—Real Estate Securities Co., 1427 Fourth Ave., E. L. Williams, Gen. Mgr., will erect 5 dwellings; 1 and 2 stories, 4 and 5 rooms.

Government and State

Fla., West Palm Beach—Broward Investment Corp., D. F. Dunkle, Pres., will erect

\$300,000 postoffice and store building, Datura St., after plans by Harvey & Clarke; 2 stories, 10,000 sq. ft., 150x146 ft.; J. S. Willson Co., Contr.*

N. C., Raleigh—State, W. N. Everett, Sec., of State, is repairing Governor's residence, Blount St.; cost \$50,000.

N. C., Raleigh—Department of Revenue, R. A. Doughton, Commr. of Revenue, let general contract at \$228,000 to W. T. Rose & Co., Goldsboro, for fireproof office building, Morgan and Salisbury Sts.; plumbing, Hunt Bros., 407 Walker Ave., \$8564; heating, B. McKenzie, \$11,025, both Greensboro; contracts previously let for concrete foundation, basement walls, steel frame and exterior stone; structure about 100x150 ft., court in rear, 5 stories and basement, marble, concrete and hardwood floors, copper roof, hollow and interior tile, vaults, metal doors, mail chutes, steel sash and trim, wire glass; cost \$500,000; Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill.*

Hospitals, Sanitariums, Etc.

Md., Frederick—Hood College is erecting \$30,000 infirmary to be known as East Cottage; 2 stories and basement, about 70x35x 35 ft., flat roof for sun parlor, 21 rooms, 5 baths, extend present heating system; John B. Hamm, Archt., New York; Lloyd C. Culler, Contr.

Mo., California—Dr. L. L. Latham, Latham, is erecting basement of \$30,000 brick veneer sanitarium; 3 stories, 35x108 ft. and 38x40 ft., hardwood and concrete floors, concrete foundation, asphalt roof, interior tile, metal doors, plaster board; furnishings, equipment, etc., \$10,000; heating, electric work and plumbing not let; O. E. Sprause, Archt., Constr. Supervisor; contract not let.*

Hotels and Apartments

Ark., Russellville—Miss Evelyn H. Pearson, Mexia, Tex., completed plans for 65-room hotel; contracts let to O. S. Nelson, Russellville and M. Mortensen, Mexia.*

Ark., Pine Bluff—O. C. Hauber, 107 Talbot St., will soon start work on \$100,000, 34-family, efficiency apartment building on site bounded by Chestnut and Walnut Sts., and 13th and 14th Aves.; 2 stories, "U" shaped, 20 garages; owner builds.

Fla., Fort Lauderdale—John Roche and Ida M. Erkins of Cincinnati let contract to M. J. Roche Construction Co. for \$200,000, 3-story, hollow tile and concrete, 35-apartment building, Himarshee Canal at N. Third St. and Avenue B; 12 four-room apartments on first floor, 14 three-room suites on second and 9 two-room suites on third; Francis L. Abreu, Archt.*

Fla., Miami—John Barnes, Palm Beach, let contract to Coral Gables Construction Co., at \$550,800, for 5-story, fireproof, 116-room hotel building, Ponce de Leon Blvd., Coral Gables; 29 sleeping rooms on each floor, suite of rooms for proprietor on second floor; H. George Fink, Archt., Congress Bldg.

Fla., Miami—Borenhard Kessler let contract to G. Lewis for remodeling and erecting annex to Marshall Apartments, N. W. 1st St.; 21 rooms, 3 stories; Lee L. Wade, Archt.*

Fla., Miami—Mrs. Margaret McCrimmon, 1520 S. W. First St., let contract to Upton Brothers, 434 S. W. Tenth St., for \$50,000, 3-story, cement block and stucco store and apartment building, N. Miami Ave. and N. W. 14th St.

Fla., Palm Beach—August F. Altieri, 300 Madison Ave., New York, Contr. and Builder, will soon start work on \$300,000 50-apartment building on Bradley Place; 18 store rooms on ground floor, writing rooms on second and third floors and 2 roof gardens; 2 elevators, central filtration plant; Harvey & Clark, Archts., West Palm Beach.*

Fla., Pompano—McNab Brothers let contract to J. E. Pierson, Hollywood, for \$50,000, 3-story, 40-room, interlocking tile hotel, Pinehurst.

Fla., Stuart—Mrs. R. H. Knapp let contract to Robb Construction Co. for \$15,000, 2-story, interlocking tile, 40x56 ft. apartment building; built-up and tile roofing, yellow pine floors, concrete foundation, hollow tile, interior tile, ventilators; plumbing and electric work in general contract; major items to be purchased include 8 roller type beds, refrigerator and kitchenette equipment, 8 living-room furnishings; John N. Sherwood, Archt., Fort Pierce, Miami and Stuart.*

Fla., Stuart—E. K. Long will erect \$20,000, 2-story and roof garden, 36x96 ft., interlocking tile apartment building; yellow pine floors, built-up and tile roof, concrete foun-

CONSTRUCTION DEPARTMENT

dation, hollow tile, interior tile, ventilators; major items to be purchased include 16 roller type beds, refrigerators, kitchenette and 16 living-room furnishings; bids to be opened June 15; John N. Sherwood, Archt., Miami, Stuart and Fort Pierce; owner builds.

Fla., Tampa—Oran P. Ward, Prospect Rd., designer and builder, Tampa, and R. N. Bosser, Johnson City, Tenn., erecting \$35,000 brick and tile Plattonian apartment building, Platt St. and S. Boulevard; stores on ground floor.

Fla., West Palm Beach—D. F. Dunkle, Julius J. Lax and others let contract to Wilcox Brothers, Guaranty Bldg., for \$310,000, 6-story, 112-room hotel building, Athene and Dixie Highway; 2 passenger elevators, steam heat; Harvey & Clarke, Archts.*

Ga., Atlanta—B. P. Joel let contract to John K. Davis, for \$50,000, 3-story, 8-apartment building, intersection of Milledge Ave., Milledge Circle and Lumpkin St.; 2 stores and 8 garages.

Ky., Paducah—Sam Foreman started brick work on large apartment building, after plans by G. Tandy Smith.

La., New Orleans—Harold P. Patterson let contract to Jenson Bros., 3021 Robert St., for \$18,200, duplex apartment building, 2322-4 Palmer Ave.

Mo., St. Louis—A. K. Richardson, 5200 Nottingham St., will erect two 2-story, brick, 25x48 ft. tenements, 5244-8 Bancroft St.; \$12,000, tile roofs, furnace heat; A. P. Richardson, Builder and Archt., 5200 Nottingham St.

Mo., St. Louis—R. H. Meyer, 6914 Kingsbury St., will erect two 2-story, brick, 29x29 ft. tenements, 3670-4 Dover St.; \$12,000; gravel roofs, hot water heat; C. Green, Archt., Benoit Bldg.; owner builds.

Mo., St. Louis—C. A. Grob, St. 4714 Leduc St., will erect two 2-story, brick, 60x41 ft. tenements, 4721-3-5-7 Leduc St.; \$24,000; composition roof, hot water heat; owner in Builder and Archt.

Mo., St. Louis—B. E. Allen, 4300 N. Florissant St., let contract to F. Greulich, 3131 N. Grand St., for \$10,000, 36x46 ft., brick tenement, 4815-17 Margaretta St.; slate roof, hot-air heat; H. C. Simon, Archt., 4446 Floriss Place.

Mo., St. Louis—Claxton Investment & Construction Co., Railway Exchange Bldg., will erect three 2-story, brick, \$8000, 38x51 ft. tenements, 4643-7 Evans St. and 5388 Emerson St.; composition roofs, hot-air heat; owner is Builder and Archt.

Mo., St. Louis—J. Cohen, 1012 Chestnut St., let contract to Harris-Weinberg Realty Co., same, for \$10,000, 2-story, brick, 35x55 ft. tenement, 1928 Semple St.; composition roof, furnace heat; B. Shapiro, Archt.

Mo., St. Louis—L. Goldstein, 1400 Goodfellow St., let contract to J. Rubin, 808 Chestnut St., for \$10,000, 2-story, brick, 45x46 ft. tenement, 5914 Hamilton Terrace; tar and gravel roof, steam heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—W. L. Heckmann, 801 Chestnut St., let contract to V. A. Chinberg, 808 Chestnut St., for \$74,000, 3-story, 116x41x95x32 ft. store and tenement, 4400-8 W. Florissant and 4635-9 Pope St.; composition roof, steam heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—J. Henneke, 4112 Lexington St., will erect \$10,000, 34x48 ft., brick tenement, 4203 W. Lexington St.; tar and gravel roof, hot-air heat; C. B. Fornesbee, Builder & Archt., 4527 Nat. Bridge.

Mo., St. Louis—May Building & Investment Co., 808 Chestnut St., will erect two 2-story, brick, \$10,000 tenements, 2031 Alfred and 4544 Cleveland Sts.; composition roof, steam heat; O. J. Popp, Archt., Arcane Bldg.; owner builds.

Mo., St. Louis—C. Reinecke, 3414 S. Spring St., will erect \$12,000, 2-story, 30x59 ft., brick tenement, 3823-5 Potomac St.; composition roof, hot-air heat; G. C. Reed, Builder & Archt., 3727 S. Grand St.

Mo., St. Louis—W. D. Baldwin, 4000 LaBadie St., will erect \$12,000, 2-story, brick, 29x53 ft. tenement, 3641 Dover Place; composition shingle roof, hot air heat; Gruenwald Construction Co., Builder & Archt., 3402 Arsenal St.

Mo., University City (Sta. St. Louis)—Roy E. Jones, 5387 Northland St., let contract to Jones Bros. Construction Co., 5549

CONSTRUCTION DEPARTMENT

Manufacturers Record

Convent—Church of the Nativity let contract to Jos. A. Richards for new convent building after plans and specifications by Milburn, Heister & Co., Union Savings Bk. Bldg., Washington and Durham.*

Fla., St. Petersburg—Hartman Amusement Co., J. V. Hartman, Pres., let contract to A. R. Ullrich Co., New York and St. Petersburg, for \$20,000, 3-story, steel frame work and hollow tile and stucco Hartman Amusement Palace, Second St. and Second Ave.; 14 shops on lower floor, dance hall, cabaret, bowling alleys, billiard hall and roof garden; George Feltham, Archt., Orange Ave., N.*

Ga., Thomasville—J. A. Rowland of Norman Construction Co. has contract for stadium; grandstand to seat 1400, 1700 ft. of fence, showers, dressing rooms, rest rooms, etc.; Atkinson & Murphy have contract for grading.*

Tex., Dallas—Texas State Fair Assn. let contract to Phil H. Pierce Co., for \$50,000 pipe organ, to be installed in Fair Park auditorium.

Tex., Donna—Inter-Continental Fair Assn., Inc., O. L. Williams, Acting Mgr., let contract to C. W. Moore, 609 W. 16th St., and Roland B. Moore, Austin and Donna, at cost plus, for first 5 exposition buildings and auditorium; \$300,000; fireproof, 2 stories, 5 wings, 130x60 ft., concrete floors and foundation, tile roof, hollow tile, interior tile, metal doors, vault lights, ventilators, ornamental terra cotta, steel sash and trim; auditorium to seat 5000; George Louis Walling, Archt., 610 Scarborough Bldg., Austin; plans out in 60 days.*

Tex., Waco—Undertaking Establishment—Hatch & Wilkinson let contract to Bush & Phillips, for \$10,000, 72x100 ft., brick building, 1126 Washington St.

Schools

Ala., Birmingham—Board of Education, D. E. McKinley, Bus. Mgr., 2320 8th Ave., North, let following contracts for 6 school buildings at total cost of \$768,580.87: General work—W. L. Coston, Ensley High; Miller Brothers, 109 N. 21st St., Central Park and Fairview; Holley & Davis, 600 19th St., Elyton; C. W. Hall, 3615 13th Ave., N., Gibson; E. R. Maynard, 2318 Ensley Ave., Council; plumbing—Birmingham Purchasing Co., 831 N. 20th St., Ensley High and Gibson; Alabama Supply Co., 1918 4th Ave., N., Central Park and Elyton; Birmingham Equipment Co., Fairview; J. M. Wright & Co., 1710 1st Ave., Council; heating—Poe Piping & Heating Co., Greenville, S. C., all six buildings; electric work—Alabama Supply Co., 1918 4th Ave., N., all six buildings; Wm. B. Ittner, Asso. Archt., 2026 6th Ave., North, and Board of Education Bldg., St. Louis, Mo.; D. O. Whilldin, 515 N. 21st, Asso. Archt. for Ensley High, Central Park, Fairview and Elyton; Denham-Van Keuren & Denham, 411 Age-Herald Bldg., Asso. Archt. for Gibson and Bem Price, 1420 Age-Herald Bldg., Asso. Archt. for Council School.*

Fla., Tampa—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., let contract to Horton & Smith, Sarasota, at \$99,090, for Theodore Roosevelt grammar school in Palma Ceia Park; B. C. Bonfoey, Archt.*

Ga., Columbus—Muscogee County Board of Education let contract to W. C. Lunsford, at \$15,618, for brick veneer school building at Rosemont, on Talbotton Road, and at Brookhaven, on Buena Vista Road.

Ky., Madisonville—School Board, Belmont Otley, Chmn., let contract to Bass Lumber Co., at \$26,500, for 1-story, brick ward school building, Hall and Herrig Sts.; Clifford Shoppell & Co., Archts., Evansville, Ind.*

Md., Bladensburg—Prince George's County Board of Education, Nicholas Orem, Supt., Upper Marlboro, let contract to E. P. Dovell, Landover, at \$21,500, for 1-story, 4-room, brick school building.

Miss., Sumner—Tallahatchie County Board of Education let contract to A. C. Samford, Montgomery, Ala., for \$60,000, 2-story, brick with stone trimming, semi-fireproof school building; N. W. Overstreet, Archt., Jackson.*

N. C., Asheville—School Board let contract to Gaskell Construction Co., Wilson, at \$57,900, for 12-room addition to Claxton School.*

N. C., Charlotte—Southern Industrial Institute, Mt. Holly Road, Rev. J. A. Baldwin, Pres., started work on laboratory and library addition to main building.

N. C., Salisbury—Catawba College Board

Miscellaneous

D. C., Brightwood (Sta. Washington)—

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

of Trustees let contract to P. C. Wood for erection of girls' dormitory; W. Carter, wiring; J. L. Powers, heating; Gant Co., plumbing; \$60,000; also let contract to Mr. Wood, at about \$20,000, for completing administration building; wiring, heating, etc., will be let later; Willard G. Rogers, Latonia Bldg., Charlotte, and Percy Bloxam, Archts.*

N. C., Winston-Salem—Forsyth County Board of Education let contract to Acme Lumber Co., at \$55,884, for 9-room addition to Sedge Garden school building; Northup & O'Brien, Archts., Starbuck Bldg.

S. C., Columbia—Board of School Commissioners, A. C. Moore, Chmn., let contract to Burns Construction Co., at \$42,370, for 6-room addition to McMaster Graded School; Wilson, Berryman & Kennedy, Archts., 1506 Palmetto Bldg.*

S. C., Lynchburg—Board of School Trustees, S. W. Frierson, Chmn., let contract to J. T. Dabbs, Columbia, at \$31,064, for 6-classroom and auditorium, brick school building; J. H. Sams, Archt., Columbia.*

S. C., Rock Hill—Board of Education let contract to R. U. McDonald, Hattiesburg, Miss., at \$11,395, including hot-air heating system, for brick school building.

Tex., Bowie—Board of Education, I. L. Chandler, Sec., let contract to Webb & Luther, at \$120,000, for 2-story, brick and concrete, 216x154-ft. high school building, concrete floors, tile roof, concrete foundation, vaults, vault lights, ventilators, wire glass, steel sash and trim, rolling partitions; E. K. Scott, Marshall, heating; Arnold & Weatherbee, 116 N. Broadway, Oklahoma City, Okla., electric work; T. J. Wright, Bowie, plumbing; W. G. Clarkson & Co., Archts., 606 First Natl. Bank Bldg., Fort Worth.*

Tex., Kerrville—Schreiner Institute Board of Trustees let contract to Thraillkill Construction Co., at \$39,800, for 2-story, 115x78 ft., brick and stone dining hall and dormitory; asbestos and slate roof, wood and cement floors, concrete and steel foundation, metal ceilings; major items to be purchased include beds, mattresses, dressers and kitchen equipment; W. B. Brown, Kerrville, heating and plumbing at \$5545; Graham & Collins, 306 W. Commerce St., electric work at \$1239; Alams & Adams, Archts., Gibbs Bldg.; all San Antonio.*

Tex., San Antonio—Christian Mexican Institute, San Jacinto and Guadalupe Sts., let contract to W. A. Orth, Gibbs Bldg., for \$25,000 brick building; Harrington & Co., Archts., Houston Bldg.; Dr. C. C. Dobson, Supt.

Va., Charlottesville—Zeta Psi Fraternity started excavation for new \$45,000 chapter house at University of Virginia; Louis F. Voorhees, Archt., prepared plans; Kappa Alpha fraternity acquired site on Carr's Hill; plans to erect lodge home.

W. Va., Buckhannon—Board of Education, Buckhannon Independent School District, let contract to Z. Westfall & R. Post, at \$30,000 plus, for 2-story and basement, 7 rooms and basement High School addition, for gymnasium; built-up roof, wood and concrete floors, concrete foundation, hollow tile, metal stairs; E. J. Wood & Son, Archts., Lowndes Bldg., Clarksburg.*

Stores

Ala., Parrish—J. M. Dunn of Dunn Hardware Co. started excavating for 50x80 ft., brick and tile building, to be occupied by Lehman Furniture Co.

Fla., Cocoa—Charles G. Stot, Chicago, and Roscoe McLane, Cocoa, erecting \$15,000, stucco, Spanish type store building; under supervision of Mr. McLane.

Fla., Fort Lauderdale—Fort Lauderdale Mercantile Co. let contract to Mills & Nor-

ton for \$22,000, 2-story, 50x135 ft., tile and concrete hardware store; built-up roof, concrete and wood floors, concrete foundation, ornamental terra cotta; Francis L. Abreau, Archt.*

Fla., Miami—J. R. Tatum of Tatum Brothers Co., purchased building, S. E. cor. W. Flagler and 12th Ave.; started remodeling; stucco exterior, build arcade, etc., \$20,000.

Fla., Miami—Charles S. Thompson, 728 N. W. Second Ave., will erect \$10,000 block, N. W. Eighth St.; 3 stories and 12 hotel rooms; W. C. DeGarmo, Archt., 39 S. E. Sixth St.; M. Crespo, Contr.

Fla., New Smyrna—J. H. Hibbard let contract to W. B. Fiveash for interlocking tile, 3-story, 50x100-ft. business block, Canal and Palmetto Sts.; also 1-story, 30x60-ft. warehouse contract to S. A. Mathews for 2-story house in rear; will be occupied by Hibbard Hardware Co.

Fla., Stuart—C. B. and Raymond Clyma store and office building, First St.; first floor to be occupied by branch of Frinck Furniture Co., Fort Pierce.

Fla., West Palm Beach—Ed Poland will erect \$14,000, 50x60 ft., tile and stucco store and apartment building, Northwood Ave., Northwood.

Fla., Winter Park—E. R. Phillips is erecting \$30,000 business block on E. Park Ave.; 9 store rooms, apartments above.

Fla., Winter Park—J. A. Podmore, T. M. Henkel and James E. Wellman, of Winter Park Development Assn., started work on 2 buildings on the Boulevard; each 2 stories, hollow tile, 1 store and 4 offices.

Fla., Zellwood—George Mayberry started work on store building and restaurant.

Ga., Augusta—Bubenstein & Harkins started alterations to store building, Campbell and Broad Sts.; Scroggs & Ewing, Archts., Lamar Bldg.

La., Rayville—H. E. McLemore let contract to N. M. Meriwether, Winnboro, for 2-story, 30x80 ft. store and office building, Louise St.

La., Monroe—Dr. J. L. Adams, 800 Jackson St., and Dr. J. Q. Graves will erect 2-story, \$18,500 building, N. Fourth St.; C. E. Fautley, Contr., K St.

Mo., St. Louis—J. G. Broeckelmann, 5220 Sutherland St., let contract to Kloster & Co., 5215 S. Grand St., for \$19,000, 2-story, brick, 40x107 ft. stores and tenement, 4517-25 S. Kingshighway and 4903 Devonshire St.; gravel roof, furnace heat.

Mo., St. Louis—Guardrail Realty & Investment Co., Fullerton Bldg., let contract to W. C. Harting Construction Co., 722 Chestnut St., for \$20,000, 86x46 ft., 2-story, brick stores and dwelling, 6127-35 Southwest St.; tar and gravel roof, steam heat; Nolte & Nauman, Archts., Fullerton Bldg.

Mo., Kansas City—Lisle Paint & Glass Co., 1917 Main St., has contract for installing 4 carloads of glass at \$45,000, in Sears, Roebuck & Co.'s \$4,000,000 plant, Cleveland and 15th St.; includes glazing entire development, the 9-story main building, 2-story retail and office building and heating and power plant.*

N. C., Greensboro—Jones & Taylor let contract to Carolina Construction Co. for rebuilding structure, Elm St. and Edwards Place; change present 1-story building into 3-story business building; \$22,000, steam heat.

Okl., Cordell—A. J. Thompson, Granite, has contract for 1-story and basement building for Storie-Morten Dry Goods Co.

S. C., Columbia—J. R. Eiford, Main and Marion Sts., let contract to J. E. Stearns, Charlotte, N. C., for remodeling store building; \$20,000.*

Tenn., Athens—Bina C. Young, Sweetwater, started work on 2-story, brick, 23x75 ft. building, to be occupied by Tuell & Butram, grocers.

Tenn., Memphis—Wm. White Co. let contract to E. J. Person for repairs at 23 S. Second St.; \$10,000.

Tex., Beaumont—Beaumont Construction Co. has contract for \$25,000, 1-story, brick, 78x75 ft. building, Mariposa St. for Piggly-Wiggly Store; Livesay & Wiedemann, Archts., 1607 San Jacinto Life Bldg.

Tex., Center—Mrs. H. H. Jones, Tom Askew and Mrs. F. P. McKnight are rebuilding brick business buildings, recently burned.

Tex., Dallas—T. R. Peacock, 611 Haines St., let contract to J. O. Everett, Melba Bldg., for \$30,000, 1-story, brick, 82x110 ft., 7-story building, Ewing Ave. and Comal St.

Oak Cliff; W. Scott Dunne, Archt., Melba Bldg.

Tex., Houston—J. A. Newstadt, Contr., remodeling interior of 3-story, brick business building, 409 Main St.; \$12,000.

Tex., Kingsville—School Board, M. H. Harrell, Pres., let contract to L. V. Jamison, San Antonio, for \$90,000, 2-story, brick and concrete school building; J. W. Hunter, plumbing, heating and oil burning at \$2666, \$6860 and \$873; A. T. Shafer, San Antonio, wiring at \$927; Page Brothers, Archts., Austin.*

Tex., Pittsburg—Board of Education let contract to Bailey-Burns Construction Co., Norman, Okla., for \$150,000, 3-story school building; auditorium to seat 1000; J. C. Korlof Plumbing Co., Sherman, heating and plumbing; wiring to be let later; J. W. Westbrook Co., Archts., 407½ N. Bishop St., Dallas.*

Tex., Waco—J. S. Harrison & Co., Contrs., 414 Liberty National Bank Bldg., have contract for 100x165 ft. building to house automobile business and grocery store.

Tex., Waco—William Smith, Contr., 1008 Franklin Ave., started work on three hollow tile and concrete store buildings, Franklin Ave. for W. W. Seley Estate, 524 Franklin Ave., Roy E. Lane, Archt., Chamber of Commerce Bldg.

Tex., Waco—Mayor Ben C. Richards let contract to Homer Ainsworth for 3 business buildings, 1017-9 Austin Ave.; 75x125 ft., ornamental brick facing, plate glass windows.

Tex., Waco—George Hoehn let contract to S. B. Swigert Contracting Co., 200 Provident Bldg., for \$13,000, 6-story building, Eighth and Mary Sts.

Tex., Yorktown—Herman Schmidt let contract to W. O. Stephenson, Floresville, at \$24,500 for 2-story, semi-fireproof, brick and concrete store building; Atlee B. & Robt. M. Ayres, Archt., Bedell Bldg., San Antonio.*

W. Va., Charleston—Board of Education, Charleston Independent School District, Dr. J. E. Robins, Pres., approved following contracts for \$900,000 Senior High School building being erected by A. G. Higginsbotham, Charleston Natl. Bank Bldg., on flat fee basis; Truscon Steel Co., Youngstown, Ohio, rib bars and seven-wire mesh, \$6260; McCloud Marble Co., Pittsburgh, structural steel, \$38,950; Concrete Engineering Product Co., Kanawha Bank & Trust Bldg., steel sash, \$13,268, with \$2431 for installation; J. E. Moss Iron Works, bar joints, \$33,116; David R. Isaac, 1344 Lewis St., granite steps and landing, main entrance, all stone and granite work, \$49,650; Concrete Engineering Products Co., 19 tin-clad doors, \$676; Burley Hardware Co., 906 Quarrier St., pipe, \$380; Walker Miner, cleaning brick, \$1.50 per 1000.*

W. Va., Fairmont—Charles E. McCray, Jr., leased Hippodrome Theater, Adams St., let contract to Lon Henry for converting into 3 store rooms.

W. Va., Huntington—Leon Shackelford, Ashland, Ky., let contract to Herzy Persun, 604 7th Ave., for rebuilding structure recently burned; 2 stories, brick, 20x140 ft., cement floors, concrete foundation.*

Theaters

Ark., Paragould—J. B. Walker & Sons have contract for \$40,000, brick and tile, 50x140 ft. theater building, S. Second and W. Emerson Sts., to be occupied by J. A. Collins and T. H. Lloyd; equipment to cost \$20,000.*

Tenn., Memphis—O. E. Bass, 1635 N. Parkway, let contract by W. T. Moody for brick and concrete picture theater and 2 stores, 1327 Madison St.; \$23,000.

Warehouses

Fla., Miami—Huck & Shell Paint Co. let contract to J. W. Bennett, 317 N. E. 24th St., for two 1-story warehouses, 168 N. E. 24th St.; \$20,000.

Fla., Miami—Monmouth Plumbing Supply Co., 79-93 N. W. Ninth St., will erect \$35,000, 2-story, concrete and tile warehouse; John H. Sculthorpe, Archt., 206 Townley Bldg.; Donothan Building Co., Contrs., Townley Bldg.

Ga., Bainbridge—Bainbridge Bright Leaf Tobacco Co. let following contracts for warehouse: G. B. Faircloth Co., Contr.; I. Killecker Sons, hardware; Ramsey-Wheeler Co., lumber; D. T. Sutherland Iron Works, Inc., iron; Pat Rich, brick; C. S. Hodges, roofing;

Ga., Vidalia—Georgia Tobacco Warehouse Co. let contract to J. T. Ragan & Co. for erecting 150x350 ft. warehouse.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Advertising Novelties.—Advertising Service Agency, 266 Bank St., Norfolk, Va.—Wants to correspond with manufacturers of advertising novelties of all kinds.

Band Saw.—J. F. Foster, 294 Washington St., Boston, Mass.—Wants horizontal band saw for sawing logs up to 36-in. diam.; second-hand equipment preferred.

Boilers.—See Cotton Seed Oil Plant Equipment.

Boiler.—Town of Scotland Neck, N. C., Bus White, Mayor.—Receives bids April 29 to furnish, deliver and erect one 500 h.p. horizontal water-tube boiler, complete with brick setting, Dutch oven, grates, soot blowers and steel stack; Wm. C. Olsen, Engr., Raleigh, N. C.

Boring Mill.—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants one 48-in. vertical boring mill, Bullard preferred.

Bridge.—Nolan County, Sweetwater, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Comm., Montgomery, Ala. See Construction News—Road and Street Construction.

Bridge.—Louisiana Highway Comm., Baton Rouge, will build 2 bridges. See Construction News—Road and Street Construction.

Bridge.—Louisiana Highway Comm., Baton Rouge, La., will build 2 bridges. See Construction News—Road and Street Construction.

Bridge.—City of San Antonio, Tex. See Construction News—Bridges, Culverts, Viaducts.

Brushes (Waxing).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 30 for 200 waxing brushes with handles, iron weighted.

Carriages (Ward, Dressing).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 27 for three ward dressing carriages; Hospital Supply Co.'s catalog No. 5622 with attachment No. 5633 or equal.

Cars (Dump).—L. J. Breed Equipment Co., 824 James Bldg., Chattanooga, Tenn.—Wants fifteen 4-yd. second-hand dump cars; Tennessee delivery.

Cars (Dump).—Dempster Construction Co., Knoxville, Tenn.—Wants fifty 4-yd. steel beam dump cars.

Cars (Dump).—Schwartz Brothers, 814 International Bldg., Washington, D. C.—Wants eight 4-yd., 36-in. gauge dump cars; delivery in Northern Virginia.

Cars (Quarry).—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants 20 low-loading steel body quarry cars, 2 yd. capacity, 36-in. gauge.

Chairs.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 24 for 900 folding chairs in groups of two for auditorium.

Church Furnishings.—E. G. Hiron, V. Chrman, Building Committee, Emmanuel Episcopal Church, Covington, Va.—Wants prices on pews, chairs, altar, organ, etc.; seating capacity 300 persons.

Coal.—A. S. Miller, Treas., Southern Branch, N.H.D.V.S., National Soldiers Home, Va.—Receives bids May 5 to furnish 15,000 tons bituminous coal and 60 tons of anthracite coal.

Coal-Handling Equipment.—Wilson-Hock Co., City Point, Va.—Wants coal-handling equipment, to include coal bunker and coal elevator.

Concrete Working Machinery.—Wm. Bailey Thomas, 1761 Post St., Jacksonville, Fla.—Wants to correspond with manufacturers of concrete working machinery for pipe, tile and house-building materials.

Cotton Seed Oil Plant Equipment.—J. O. Ashworth, Kosciusko, Miss.—Invites bids on 300 H. P. boilers, 130-lb. working pressure; automatic engine oilers; transmission machinery, rope, belting, etc.

Crane.—Sam'l T. Williams, 8 E. Lexington St., Baltimore, Md.—Wants gantry or traveling crane for 120 to 130-ft. span, to lift 10 ton, to clear height of 40 ft.; prefer gantry.

Crane.—See Hydro-Electric Generating Equipment.

Crane.—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants 5-ton electric overhead traveling crane, 3-phase, 60-cycle, 220-volt, A. C., adapted for span of 50 ft.

Derrick.—Sam'l T. Williams, 8 E. Lexington St., Baltimore, Md.—Wants one stiff-leg

derrick with 75 to 80-ft. boom, to lift 10 tons; would prefer it built of wood, with or without hoister; state condition.

Distilling Apparatus.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 27 for two bracket-type distilling apparatus, automatic, operated on 25 lbs. steam pressure; capacity 1 gal. per hour; A. H. Thomas Co.'s catalog No. 4672 or equal.

Dragline Equipment.—Lewter F. Hobbs, Inc., Monticello Ave., Norfolk, Va.—Wants one No. 4 Keystone with ditcher scoop and one Byers Bearcat with ditcher scoop; good used equipment.

Dredging.—U. S. Engineer Office, 140 Decatur St., Courthouse, New Orleans, La.—Receives bids April 28 for 937,000 cu. yds. earthwork in Lower Tensas and Atchafalaya Levee Dist.

Dredging.—U. S. Engineer Office, Charleston, S. C.—Receives bids May 4 to dredge in Charleston harbor and upper end of Drum Island.

Engine (Oil).—R. C. Fox, Jr., Sunflower, Miss.—Wants 75 h.p. oil engine.

Engines, etc.—See Cotton Seed Oil Plant Equipment.

Envelopes.—The Orlando Credit Assn., A. E. Dickson, Pres., Box 193, Orlando, Fla.—Wants envelopes, size No. 10, in lots of 25,000 at one time; correspond with manufacturers who will print copy on envelope.

Fire Extinguishers.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 29 to furnish 45 fire extinguishers; delivery Marine Barracks, Parrys Island (Port Royal), S. C., Sch. 579.

Forms (Concrete).—T. A. Honour Coal Co., Greenville, S. C.—Wants forms for concrete products, including vases, fence posts, blocks, etc.

Furniture, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 27 to furnish furniture, beds, refrigerators, etc.; delivery Marine Barracks, Parrys Island, S. C.; Sch. 570.

Generator.—See Hydro-Electric Generating Equipment.

Generator Set.—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants 15 K. W., 3-phase, 60-cycle, 220-volt, direct-connected engine generator set, steam or gasoline.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids May 14 to furnish gravel to surface 15.95 mi. Natchitoches Parish, 10.68 mi. Webster Parish and 3.46 mi. Lincoln Parish; plans on file; W. B. Robert, State Highway Engr.

Gravel.—H. L. Washburn, Harris County Auditor, Houston, Tex.—Receives bids May 11 for hauling gravel on West Montgomery road; cleaning out ditch near Hillendale.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids May 12 to furnish gravel to surface 5.25 mi. in West Feliciana Parish; plans on file; W. B. Robert, State Highway Engr.

Gravel.—J. C. Hamilton, City Clerk, Port Arthur, Tex.—Receives bids April 24 to furnish 18,000 cu. yds. gravel, consisting of mixture of gravel, sand and clay; prices f.o.b. Port Arthur.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Receives bids May 7 to furnish gravel for 1.43 mi. road in East Feliciana Parish; plans on file; W. B. Robert, State Highway Engr.

Hoists.—See Hydro-Electric Generating Equipment.

Hydro-Electric Generating Equipment.—Town, R. W. Catlin, Mgr.—Wants information and prices on one 300 and one 438 K.V.A. electric generator, direct connected exciter and brakes; 450 h.p. water wheel, including governor; 300 h.p. water wheel outfit, including governor; 20-ton crane and crane girder; motor-operated waste gate and hoists, motor-operated head gate and hoists; 3 hand-operated head gates and hoists, steel gate stems for 5 gates, three 400-K.V.A. transformers, 22000 v-2300.

Knitting Machines.—Geo. Ross Pou, Supt. State's Prison, Raleigh, N. C.—Names and addresses of manufacturers of knitting machines, for installation in State institutions.

Laboratory Supplies.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 27 for laboratory supplies.

Laboratory Supplies.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 23 for laboratory supplies.

Lathe.—Southern Steel & Rolling Mill, Inc., 3900 Tenth Ave., N., Birmingham, Ala.—Wants one rolling mill lathe, capable of taking 16-in. roll.

Levee.—Third Mississippi River Dist., Box 404, Vicksburg, Miss.—Receives bids April 29 for 950,000 cu. yds. levee work in quantities of approximately 100,000 cu. yds.

Limestone, etc.—State Highway Comsn., Old Capitol Bldg., Frankfort, Ky.—Receives bids May 14 to deliver 8000 to 10,000 tons crushed limestone; E. N. Todd, State Highway Engr.

Linoleum.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids May 1 for 250 sq. yds. medium battleship linoleum, 3-16 in. thick.

Linoleum.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 30 for 467 sq. yds. linoleum, medium battleship, 3-16 in. thick, plain tan.

Locomotive.—L. J. Breed Equipment Co., 824 James Bldg., Chattanooga, Tenn.—Wants 28 to 30 ton, 36-in. gauge geared locomotive; Tennessee delivery.

Locomotives.—Dempster Construction Co., Knoxville, Tenn.—Wants four 18-ton dinkey locomotives.

Machine Shop Equipment.—T. C. Blanchard, Doddridge, Miss.—Wants S. H. shaper with about 14-in. stroke; also power hack saw; state price.

Magnifying Glass.—T. O. Tippit, Blossom, Tex.—Wants to correspond with manufacturers of magnifying glass.

Mattress-Making Machinery.—Wm. Black, Mount Bayou, Miss.—Wants data and prices on machinery to make mattresses, also for making batting from cotton linter.

Metal Work.—U. S. Engineer Office, Box 72, Louisville, Ky.—Receives bids May 11 to furnish and deliver metal work of Beartrap Weirs for Dam No. 45, Ohio River.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids May 4 to furnish boilers, cable wire, motors, electric drills, batteries, street globes, transformers, rectifiers, electrical fixtures and fittings, pipe fittings, screws, hinges, locks, sanitary fixtures, washtubs, shower heads, valves, cocks, a handles, solid tires, inner tubes, horsehide gloves, mucilage, etc. Blank forms and information (Circular 1663) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; also U. S. Engineer Offices throughout country.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids April 24 to furnish license tags; valves; traps; floor drains; closet bolts; railing fittings; ball joints; lanterns; transformers; hand horns; hose clamps; bed casters; canvas gloves; copper sulphate; twine, pencils, etc. Blank forms and information (Circular 2381) on application to offices of Panama Canal, Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Motor Vehicles.—District Comms., 509 District Bldg., Washington, D. C.—Receives bids May 12 to furnish and deliver three motor vehicles.

Motor.—Southern Steel & Rolling Mill, Inc., 3900 Tenth Ave., N., Birmingham, Ala.—Wants 1000 H. P. slip ring motor, 3-phase, 60-cycle, A. C. current, 2300 volts.

Motors.—Wilson-Hock Co., City Point, Va.—Wants two 50-h. p., 3-phase, 60-cycle motors, 440 volt, 1800 R.P.M. with starting equipment, suitable for direct connection to pump; also two 25-h. p., 3-phase, 60-cycle motors, 440 volt, 900 R.P.M. with starting equipment.

Moulder.—Oliver Carter, Wilmington, N. C.—Wants first-class 8 to 10 in. four side, inside moulder; give price and full description.

Nails, etc.—Norfolk & Western Ry. Co., Clyde Cooke, Purchasing Agent, N. & W. Ry., Bldg., Roanoke, Va.—Receives bids April 20 for 701 cast iron side frames, Contr. serial No. AA-351; 500,000 tie dating nails, Contr. serial No. AA-352.

Oil Well Equipment.—Claude A. Snider, Red Fox Oil & Gas Co., 121 Maple Ave., Fairmont, W. Va.—Will probably be in market for machinery and supplies.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Organ.—E. G. Hiron, V. Chrmn. Building Committee, Emmanuel Episcopal Church, Covington, Va.—Wants prices on organ for church, seating capacity of building 300 persons.

Paper.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids April 29 for 50 rolls buff color paper, smooth finish; quotations f. o. b. point of shipment.

Paving.—City of Nashville, Tenn.—See Construction News—Road and Street Construction.

Paving.—City of Washington, D. C. See Construction News—Road and Street Construction.

Pipe (Cast Iron).—See Water Works.

Pipe (Terra Cotta).—A. J. Hawkins, City Engr., Birmingham, Ala.—Receives bids April 21 for 10,000 lin. ft. of 8-in., 2600 lin. ft. of 10-in., 1000 lin. ft. of 12-in., 2500 lin. ft. of 15-in., 600 lin. ft. of 18-in. of terra cotta pipe; and 2500 cu. yds. rock excavation; remaining and uncompleted work under Improvement Ordinance No. 346-D.

Pipe.—Wilson-Hock Co., City Point, Va.—Wants 800 ft. of 6 or 8-in. standard weight pipe with flanges.

Planer.—Hackley Morrison Co., Inc., 1708 Lewis St., Richmond, Va.—Wants one small wood planer, single side, to take boards up to 18 in. wide.

Portland Cement.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids April 23 to furnish 20,000 bbls. Portland cement. Blank forms and information (Circular 1664) on application to offices of Panama Canal; Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Printing, Binding, etc.—Howard B. Lee, Attorney Gen., Charleston, W. Va.—Receives bids June 10 for printing and binding current volumes of reports of Supreme Court of Appeals of W. Virginia.

Pumps.—Wilson-Hock Co., City Point, Va.—Wants 2800 gpm. all iron centrifugal pump, also 10x6x12 horizontal duplex boiler feed pump, other suitable substitute for above sizes.

Pump.—See Water Works.

Rails.—Dempster Construction Co., 712 Walnut St., Knoxville, Tenn.—Wants 2 mi. of 56-lb. rails.

Rails.—F. C. Harding, Pres., Farmers Transportation Co., Greenville, N. C.—Wants prices on 14 mi. of 23-lb. rails in good condition, delivery f. o. b. Greenville.

Rails, etc.—Schwartz Brothers, 814 International Bldg., Washington, D. C.—Wants 100 to 150 tons of relaying rails and accessories; delivery N. Carolina.

Refrigerators.—See Furniture, etc.

Re-wiring.—J. C. Sherard, Warren County Clerk, Vicksburg, Miss.—Receives bids May 5 for re-wiring court house and jail.

Riprap Stone.—Mississippi River Comms., First and Second Dists., 1006 McCall Bldg., Memphis, Tenn.—Receives bids May 11 to furnish and load about 12,000 cu. yds. riprap stone on Government barges.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 4 roads. See Construction News—Road and Street Construction.

Road.—Washington County, Brenham, Tex. See Construction News—Road and Street Construction.

Road.—Jones County, Ellisville, Miss. See Construction News—Road and Street Construction.

Road.—State Roads Comm., Baltimore, Md., will build 9 roads. See Construction News—Road and Street Construction.

Road.—York County, York, S. C., will build 2 roads. See Construction News—Road and Street Construction.

Road.—Nolan County, Sweetwater, Tex. See Construction News—Road and Street Construction.

Road.—State Road Dept., Tallahassee, Fla., will build 8 roads. See Construction News—Road and Street Construction.

Road.—State Roads Comm., Baltimore, Md., will build 9 roads. See Construction News—Road and Street Construction.

Road.—Fayette County, Fayetteville, W. Va.—See Construction News—Road and Street Construction.

Road.—Stephens County, Breckenridge, Tex., will build 4 roads. See Construction News—Road and Street Construction.

Road.—Ellis County, Waxahachie, Tex., will build 2 roads. See Construction News—Road and Street Construction.

Road.—State Highway Comm., Montgom-

ery, Ala., will improve and build 2 roads. See Construction News—Road and Street Construction.

Road.—Walker County, Jasper, Ala. See Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 2 roads. See Construction News—Road and Street Construction.

Rubber Bags (Ice).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids April 25 for 288 rubber ice bags.

Sander.—G. W. Simmons, 492 Vance Ave., Memphis, Tenn.—Wants one H. B. Smith Co. 48-in. endless belt sander, state symbol letter and condition of machine, age and full specifications.

Screens (Fly).—Virginia Building Material Co., Inc., 808 E. Cary St., Richmond, Va.—Wants to correspond with manufacturers of made-to-order door and window screen; must be type of screen salable to cheaper apartment trade.

Seating.—See Church Furnishings.

Sewer Construction.—City of Louisville, Ky., Matt H. Crawford, Commr.—Reserves bids May 8 for construction of 38th St.-Duncan St. District sewer; approximate quantities: 1140 ft. of 5-ft. 6-in. semi-elliptical reinforced concrete sewer, 1340 ft. of 6-ft. semi-elliptical reinforced concrete sewer, 3 junction chambers, manholes; J. B. F. Breed, Ch. Engr.

Sewer Construction.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Receives bids April 29 for storm drains and sanitary sewers in Sewer Dist. II-9 and in Storm Water Contract No. 85; work comprises approximately 753 lin. ft. of 12x6-ft. 9-in., 1287 lin. ft. of 12x5-ft. 6-in., 428 lin. ft. of 12x4-ft. 6-in. reinforced concrete box drains; 124 lin. ft. of 54-in., 50 lin. ft. of 36-in. diam. and 20 lin. ft. of 33-in. diam. reinforced concrete pipe drain; 2650 lin. ft. of 20-in., 121 lin. ft. of 10-in., 45 lin. ft. of 8-in. vitrified pipe sewer; 76 lin. ft. of 15-in. vitrified pipe inlet connections; 784 lin. ft. of 6-in. vitrified pipe house connections; 1650 lin. ft. of 8-in. and 1300 lin. ft. of 6-in. underdrains; Bernard L. Crozier, Highways Engr.; Steuart Purcell, Chief Engr.

Sewer System.—Board of Commrs. Sewer Improvements District No. 1, Magnolia, Ark.—Receives bids May 12th for furnishing material and constructing complete sanitary sewer system; approximate quantities: Trenching and back filling, 36,435 ft., cut 0 to 6 ft., 14,445 ft. cut 6 to 8 ft., 3190 ft. cut 8 to 10 ft., 380 ft. cut 10 to 12 ft., 330 ft. cut 12 to 14 ft., 390 ft. cut 14 to 16 ft., 320 ft. cut 16 to 18 ft. Sewer Pipe Furnishing and Laid—41,345 ft. 6 in., 10,187 ft. 10-in., 3576 ft. 12-in., 262 ft. 15-in., vitrified sewer pipe; 60 ft. 8-in., 48 ft. 10-in., 12 ft. 12-in. cast iron pipe; 1013 6-in. by 8-in. Y's; 29 6-in. by 10-in. Y's; 6 6-in. by 12-in. Y's. Appurtenances—131 manholes, 12 flush tanks, 33 ft. Ex. depth manholes, 590 ft. ¾ G.W.I. pipe, 12 service connections, 2 outlet protections. Disposal plants—2 disposal plants complete, including inlet manholes, Imhoff tanks, dosing chambers, filters, etc.; E. T. Archer & Co., Consrt. Engrs., Kansas City, Mo.

Sewage Improvements.—City of Mount Holly, N. C., O. L. Hoffman, Mayor—Receives bids April 30 for 4000 ft. of 8-in. sewers, complete in place; 7 manholes; The Carolina Engineering Co., 917 Johnston Bldg., Charlotte, Engrs.; G. H. Bishop, Consrt. Engr.

Shovel.—Florida Lime Co., Inc., Oscala, Fla.—Wants good power shovel, ¾-yd., 1-yd. or ½-yd. dipper.

Shovels.—Dempster Construction Co., Knoxville, Tenn.—Wants two 1½ cu. yds. crawler-type shovels.

Shovel (Steam).—Schwartz Brothers, 814 International Bldg., Washington, D. C.—Wants one ¼-yd. crawler type traction steam shovel, second-hand, good working condition; delivery in Virginia.

Signs (Traffic).—John T. Wilkins, Mayor, Hendersonville, N. C.—Wants turtle back traffic signs for the street intersections.

Street Improvement.—City of Cumberland, Md. See Construction News—Road and Street Construction.

Street Improvement.—City of Winona, Miss. See Construction News—Road and Street Construction.

Street Improvement.—Ridgewood Land Co., 416 14th St., Huntington, W. Va.—See Construction News—Road and Street Construction.

Street Improvement.—City of Smithville,

Tex. See Construction News—Road and Street Construction.

Street Improvement.—Town of Auburndale, Fla. See Construction News—Road and Street Construction.

Street Improvement.—City of Baton Rouge, La. See Construction News—Road and Street Construction.

Street Paving.—City of Shreveport, La. See Construction News—Road and Street Construction.

Street Sweeper and Cleaner.—John T. Wilkins, Mayor, Hendersonville, N. C.—Wants combination street sweeper and cleaner.

Tanks (Gasoline).—Shelby County Comms., E. W. Hale, Chrmn., Memphis, Tenn.—Receives bids April 27 for one or more gasoline tanks of following sizes: 20,000, 25,000 30,000, 35,000 or 40,000 gal. capacity; tanks not less than ¼-in. thick, tight, comply with National Underwriters' requirements; f. o. b. Memphis.

Tank and Tower.—Wilson-Hock Co., City Point, Va.—Wants 100,000-gal. capacity tank on 100-ft. tower.

Tank and Tower.—See Water Works.

Textiles.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 29 to furnish 30,000 yds. of 34-in. and 20,000 yds. of 50-in. bobbinet, 75,000 yds. flannel shirting, 15,000 yds. dark blue kersey and 20,000 yds. green kersey; delivery Philadelphia, Pa. Sch. 578.

Transformers.—See Hydro-Electric Generating Equipment.

Tumblers (Glass).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Receives bids April 30 for 3000 doz. glass tumblers, 9-oz. capacity.

Turbo-Generator.—Wilson-Hock Co., City Point, Va.—Wants 500 to 750 k.w. turbo-generator, 60-cycle, 2-stage bleeder-type turbine preferred.

Transmission Machinery, etc.—See Cotton Seed Oil Plant Equipment.

Trucks and Tractor.—Dist. Comms., Room 509 District Bldg., Washington, D. C.—Receives bids May 6 to furnish and deliver ten motor trucks and one tractor.

Valves and Fittings.—Wilson-Hock Co., City Point, Va.—Wants 4, 6 and 8-in. all iron, flanged valves and fittings, suitable for installation on acid line.

Water Main.—City of Magnolia, Ark. Board of Commrs.—Receives bids May 12 for extension to water works; approximate quantities: 8592 ft. of 6-in., 32,702 ft. of 4-in. cast iron pipe, 460 ft. of 4-in. cast iron pipe relayed, 10,550 ft. of 2-in. G.W.I. pipe, 21,620 lbs. C. I. specials, 120 G.W.I. fittings, 14 C. I. connections; 22 4-in. hydrants, 6-in. shoe; 46 4-in. hydrants, 4-in. shoe; 8 6-in. gate valves and boxes, 40 4-in. gate valves and boxes; E. T. Archer & Co., Consrt. Engrs., Kansas City, Mo.

Water Wheel.—See Hydro-Electric Generating Equipment.

Water Wells.—City of Salisbury, Md., Watson D. Mitchell, Sec., Water and Sewer Coms.—Receives bids May 5 for constructing wells, Contract No. 5; Francis H. Dryden, Ch. Engr.

Water Works.—City of Port Lavaca, Tex., D. E. Guidry, Mayor.—Opens bids April 22 for construction of water works, including 1 well cased; galvanized iron pumphouse, steel frame, concrete floor; 75,000 gal. elevated storage tank; 50,000 concrete ground storage tank; 500 g.p.m. motor driven fire pump; 1600 ft. 8-in. Class B, cast iron pipe; 19,600 ft. 6-in. Class B, cast iron pipe; 4500 ft. 2-in. cast iron pipe; 25 fire hydrants; two 8-in. valves and boxes; seventeen 6-in. valves and boxes; eight 2-in. valves and boxes; Terrell Bartlett, Engrs., Calcasieu Bldg., San Antonio.

Window Glass.—E. G. Hiron, V. Chrmn. Building Committee, Emmanuel Episcopal Church, Covington, Va.—Wants prices on glass for church windows, 2 large and 24 small windows.

Wire Cloth.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids April 24 to furnish copper screen wire cloth; delivery various posts of Marine Corps. Sch. 569. West End.

Woodworking Machinery.—Varney Bros., Washington Square Bldg., Bradenton, Fla.—Wants information and prices on portable woodworking machinery to rip, crosscut (to 4 in.), jointer, rabbeting outfit.

Financial News

New Financial Corporations

Ala., Anniston—Calhoun Credit Co., Inc., incorporated; B. W. Prueett, J. F. King.

Ala., Mobile—Norwood Investment Co., Inc., incorporated; Florence N. Cox, Mobile; Virginia N. Watts, New York.

Ark., Hulbert—The Hulbert Investment Co., of Hulbert, capital \$30,000, incorporated; T. K. Riddick, A. W. Ketchum.

Ark., Little Rock—Capital Life Insurance Co., capital \$100,000, incorporated; J. H. Richter, Pres.; Floyd C. Carl, Sec.-Treas.

D. C., Washington—Capital Mutual Savings Bank, 710 Fourteenth St. N. W., capital \$200,000, incorporated; Francis M. Savage, interested.

Fla., Englewood—Englewood State Bank, capital \$25,000, incorporated; Ira Rigdon, Pres.; A. H. Hill, temporary Cashier.

Fla., Jacksonville—Fox Investment Co., incorporated; Mark H. Fox, Pres.-Treas.; F. W. Whitaker, Sec.

Fla., Key West—First Title & Gauranty & Abstract Co. of Key West, capital \$25,000, incorporated; Clark D. Stearns, Pres.; Wm. H. Malone, Sec.

Fla., Miami—Haworth Bond & Mortgage Co., capital \$300,000, incorporated; Perry E. Haworth, Pres.; M. E. Gallagher, Sec.

Fla., Miami—Miami Finance & Discount Co., capital \$400,000, incorporated; E. D. Spencer, Pres., 829 N. W. 29th St.; Geo. R. Short, Sec.

Fla., Miami—Tatums Investors Corp., John G. Brooks, Gen. Mgr., plans increasing capital, \$500,000 to \$1,000,000.*

Fla., Ocala—Central Securities Co., capital \$100,000, incorporated; R. C. Camp, Pres.; R. L. Anderson, Jr., Sec.-Treas.

Fla., Sebring—Sebring Bond & Investment Co., capital \$50,000, incorporated; A. E. Lawrence, Pres.; Wm. W. Bullock, Sec.-Treas.

Fla., Tampa—Greater Tampa Investment Co., 518 Tampa St., organized; Howard E. Foster, Harry P. Cooper.

Fla., West Palm Beach—Millman Investment Co., incorporated; Emerson C. Coon, Pres.; Gayle McFadden, Sec.

Fla., West Palm Beach—V. Mason Well, interested in organizing U. S. Title and Guaranty Co. and U. S. Abstract and Title Co.

Ga., Athens—John J. Wilkins & Co., organized; John J. Wilkins, S. W. Norwood.

La., Shreveport—American National Bank of Shreveport, M. A. McCutcheon, Pres., plans increasing capital, \$150,000 to \$300,000; also American Bank & Trust Co., M. A. McCutcheon, Pres., plans increasing capital \$100,000 to \$150,000.

Md., Baltimore—Federal Holding Co., 1010 Keyser Bldg., incorporated; Wilfrid Kirwin, Elsie E. Hoch.

Md., Baltimore—Calvert Trading Co., 103 W. Thirty-ninth St., incorporated; Thomas T. Hammond, M. Harry Laib.

Md., Baltimore—Charles Street Investment Corp., 701 Keyser Bldg., incorporated; Lois McK. Williams, Wilfred Kirwin.

Md., Baltimore—Battle Monument Building Assn., Inc., 508 Munsey Bldg., capital \$500,000, incorporated; George E. Phillip, George W. Abell.

Md., Baltimore—Eastern Home Building & Loan Assn., Inc., 3426 Eastern Ave., capital \$520,000, incorporated; John M. Pohlhaus, Frank G. Dotterweich.

Md., Baltimore—Home Protection Building & Loan Assn., Inc., 75 Gunther Bldg., capital \$500,000, incorporated; John E. Bopp, Walter S. Ritter.

Md., Baltimore—Louise, Inc., 1217 Munsey Bldg., capital \$20,000, incorporated; J. Leiper Winslow, M. Morris Whitehurst.

Md., Baltimore—“O. K.” Building & Loan Assn., Inc., 3340 E. Baltimore St., capital \$500,000, incorporated; Bernard Schiphorst, Wm. Hofmeister.

Md., Baltimore—Protective Building & Loan Assn., Inc., 102 E. Mulberry St., capital \$200,000, incorporated; Samuel Abrams, Morris Lutzky.

Md., Baltimore—Seaboard Insurance Co., Munsey Bldg., increased capital, \$100,000 to \$200,000.

Mo., Independence—American Underwriters, Inc., capital \$25,000, incorporated; Eric E. Ellis, F. A. Sanford.

Mo., Kansas City—Four Square Loan Plan Co., incorporated; Earl M. Anderson, 1319 N. Seventh St.; Bert L. Elmer, 1004 W. Thirty-third St.

Mo., Kansas City—Dudley Investment Co., incorporated; Genevieve Parlin, 3633 Charlotte St.; Andrew F. Tribble.

Mo., St. Louis—Advance Loan & Investment Co., capital \$42,000, incorporated; Max Traub, 4739 McMillan St.; Myer Levin.

Mo., St. Louis—Page Investment Co., capital \$25,000, incorporated; G. P. Reid, 5938 A. Romaine; J. F. Mackey.

Mo., St. Louis—St. Louis Finance Co., capital \$40,000, incorporated; R. P. Pitts, 2500 Cass St.; J. L. Crain.

Mo., Springfield—First National Bank, capital \$100,000, chartered; C. F. Baggett, Pres.

N. C., Asheville—Standard Mortgage Co., capital \$500,000, incorporated; Thomas R. Byrd, James B. Hensley.

N. C., Winston-Salem—Gurney P. Hood, Pres. Hood Finance Corp., interested in organizing industrial bank with \$200,000 capital.

Okla., Sapulpa—Sapulpa Industrial Finance Corp., capital \$100,000, incorporated; Geo. H. Wetzel, A. B. Bracken.

Okla., Tulsa—Midcontinent Abstract Trust, Inc., capital \$25,000, incorporated; G. W. Kanode, W. B. Blackburn.

S. C., Florence—Phillip H. Arrowsmith and associates plan establishing bank with \$125,000 capital.

Tenn., Knoxville—Central Finance & Trust Co., 617 Market St., capital \$100,000, incorporated; T. G. Brown, Pres.; E. C. Brown, Sec.

Tenn., Nashville—Liberty Bank & Trust Co., capital \$100,000, incorporated; R. E. Donnell, 3400 W. End St.; W. S. Chappell.

Tenn., Nashville—Generally Securities Co., capital \$25,000, incorporated; Walter Sanford, 4th and 1st Bldg.; Morris W. Ellis.

Tex., Brownsville—Texas Bank & Trust Co., capital \$75,000, incorporated; Frank Rabbs, Pres.; Jee Celyaya, Jr., Cashier.

Tex., Cameron—Texas State Bank & Trust Co., capital \$50,000, incorporated; H. M. Hefey, Pres.; J. L. Clinton, Cashier.

Va., Richmond—Lawyers Title Insurance Corp., capital \$50,000 to \$500,000, incorporated; E. B. Thomas, Pres.; H. L. Smith, Sec. Travelers Bldg.

W. Va., Morgantown—Monongalia Building & Loan Assn. increased capital, \$6,500,000 to \$7,800,000.

New Securities

Ala., Birmingham—Municipal Improvement—Jefferson County, Board of Revenue, Capt. Lacey Edmondson, Pres., receives bids May 5 for \$2,500,000 bonds: \$1,500,000 courthouse, \$500,000 county schools, \$500,000 Hillman hospital.*

Ala., Eufaula—Water Works—City sold \$25,000 5% bonds to Caldwell & Co., Nashville, at 96.50.

Ala., Florence—Street and Sewer Improvement—City voted \$264,000 bonds; receives bids this week. Address City Clk.

Ala., Mobile—Library—City plans voting this summer on bonds; Harry T. Hartwell, Mayor.

Ala., Mobile—Public Improvement—City, S. H. Hendrix, City Clk., sold \$350,000 5% bonds to First National Bank of Mobile at par, accrued interest and premium of \$951.*

Ala., Mobile—Gulf, Mobile & Northern R. R. Co., H. S. Jones, Ch. Engr., Mobile, requested authority Interstate Commerce Comm. to issue \$4,000,000 4½% bonds.

Ala., Selma—Bridge—City, T. J. Rowell, Mayor, plans calling election May 27 on bonds.

Ala., Tuscaloosa—Public Improvement—City Comms., D. B. Robertson, Pres., receive bids May 6 for \$7000 6% \$1000 denom. bonds.

Ala., Tuscaloosa—Public Improvement—City Comms., D. B. Robertson, Chmn. receives bids May 6 for \$173,000 6% \$1000 denom. bonds.

Ala., Tuscaloosa—Public Improvement—City, M. G. Kersh, City Clk., receives bids May 5 for \$175,000 6%, \$1000 denom. bonds.

Ark., Conway—Indebtedness—Faulkner County, W. M. Harper, Judge, will receive bids soon for \$60,000 bonds.

Ark., Fort Smith—Street Improvement—City sold \$4500 6% Paving Dist. No. 36 bonds to Arkansas Valley Trust Co., John C. Gardner, Pres., Fort Smith, at 100.75.

Ark., Marshall—Searcy County, B. B. Ferguson, Judge, sold \$75,000 6% bonds to First National Bank of Marshall at 101.

Fla., Apalachicola—Road—Franklin County contemplates \$250,000 bond election. Address County Comms.

Fla., Arcadia—Municipal Improvement—City plans \$350,000 bond issue. Address City Clk.

Fla., Arcadia—School—De Soto County Board of Public Instruction, H. A. Ware, Chmn., receives bids May 4 for \$112,000 5½% Special Tax School Dist. No. 1 bonds and \$30,000 5½% Special Tax School Dist. No. 13 bonds.

Fla., Auburndale—Improvement—Town, W. B. Brewer, Clk., receives bids May 8 for \$130,000 6% bonds.

Fla., Bartow—Road—Polk County Special Road and Bridge Dist. No. 12 votes May 12 on \$625,000 bonds. Lately noted election Apr. 7.

Fla., Bartow—Road—Polk County, Special Road and Bridge Dist. No. 13, voted \$325,000 bonds. Address County Comms.

Fla., Blountstown—Road—Calhoun County sold \$30,000 6% bonds to S. B. Sawyers Co., Atlantic National Bank Bldg., Jacksonville, at \$32,280 net.*

Fla., Clearwater—Road—Pinellas County, Safety Harbor Road and Bridge Dist., voted \$425,000 bonds. Address County Comms.

Fla., Dade City—Road—Pasco County voted \$1,330,000 bonds. Address County Comms.*

Fla., DeLand—Road—Volusia County, De Land-Lake Helena Special Road and Bridge Dist., voted May 12 on \$600,000 bonds. Address County Comms.

Fla., Delray—City voted \$80,000 bonds. Address Pres. School Board.

Fla., Fort Lauderdale—Broward County Comms., will call election May 12 on \$1,500,000 road and \$500,000 courthouse bonds.

Fla., Fort Meade—School—Polk County Comms., Bartow, will call election this week on \$100,000 bonds.*

Fla., Frostproof—School—Polk County School Board, Bartow, will call election soon on \$120,000 bonds. Address Pres. Board.

Fla., Haines City—Street Improvement—City Comms., Jess A. Rerrell, Clk., sold \$30,000 6% bonds to State Bank of Haines City at 103.40.*

Fla., Jacksonville—Duval County Comms., will call election May 26 on \$1,125,000 bonds.

Fla., Moore Haven—Courthouse—Glades County voted \$150,000 bonds. Address County Comms.

Fla., St. Augustine—Florida East Coast Ry. Co., W. G. Brown, Engr., M. W., St. Augustine, requested authority Interstate Commerce Com. to issue \$15,000,000 5% bonds.

Fla., St. Augustine—Municipal Improvement—Refund—City, C. G. Oldfather, Clk., receives bids April 27 for \$1,074,000: \$48,000, refund; \$415,000, water works; \$611,000, bridge.

Fla., Sebring—Municipal Improvement—City votes this summer on \$2,500,000 bonds. Address City Clk.

Fla., Tampa—Seawall—Hillsborough County Comms., receive bids Apr. 24 for \$157,000 Bayshore bonds.

Fla., Tavares—General Obligation—Town, J. W. Hunter, Mayor, sold \$12,000 6% \$1000 denom. bonds to Florida National Bank of Jacksonville.*

Fla., Tavares—Road—Lake County, Groveland, Mascotte and Okahumpka voted \$750,000 bonds; Geo. F. Revels, Commr.

Fla., Wauchula—School—Hardee County sold \$75,000 bonds to Walter, Woody & Heimdering, 403 Dixie Term. Bldg., Cincinnati, at 107.*

Fla., West Palm Beach—Road and Bridge—Palm Beach County Comms., contemplate \$7,000,000 bond issue; George O. Butler, County Engr.

Ga., Atlanta—Georgia Railway & Power Co., Preston S. Arkwright, Pres., requested authority Georgia Public Service Comm. to issue \$4,000,000 7% first preferred cumulative stock series 1925.

Ga., Atlanta—Street Improvement—City sold \$79,000 4½% bonds to Trust Co. of Georgia, Atlanta, at premium of \$1172.*

Ga., Fort Valley—Sewer—City voted bonds. Address City Clk.

Ga., Talbotton—School—Talbotton Consolidated School Dist. voted \$30,000 bonds; Board of Trustees receives bids May 2 for 5% bonds; J. A. Smith, Chmn.*

Ga., Waycross—School—City, Walter E. Lee, Clk., sold \$125,000 5% bonds to Robinson-Humphrey Co., Atlanta, at par, accrued interest and premium of \$9112.*

Ky., Marion—Water Works—City sold \$50,000 bonds to Farmers Bank & Trust Co., Marion, at premium of \$2130.

Ky., McKee—Road and Bridge—Jackson County sold \$30,000 5% bonds, \$1000 denom., to Weil, Roth & Irving, 217 Dixie Term. Bldg., Cincinnati.

Ky., Pineville—Refund—City sold \$13,000 5% bonds to Walter, Woody & Helmendinger, 403 Dixie Term. Bldg., Cincinnati.

La., Abbeville—Drainage—Vermilion Parish Board of Commsrs. of Coulee Maton Drainage Dist., A. G. Langlinalis, Pres., receives bids May 7 for \$16,000 6% bonds.

La., Church Point—Public Improvement—City, Laurent Barousse, Mayor, receives bids April 28 for \$50,000 6% \$1000 denom. bonds.

La., Gretna—School—Jefferson Parish School Board will call election June 9 on \$600,000 bonds. Address Pres. Board.

La., Lafayette—School—Lafayette Parish, Louisiana School Board, J. W. Faulk, Sec., receives bids May 1 for \$250,000 5% \$1000 denom. School Dist. No. 3 bonds.

La., Pineville—Municipal Improvement—City sold \$25,000 6% bonds to L. E. French & Co., Alexandria, at par, accrued interest and premium of \$35.*

La., St. Joseph—School—Tensas Parish sold \$60,000 5 1/4% bonds jointly to Sutherland, Barry & Co., 339 Carondelet St., and Watson, Williams & Co., 832 Common St., both New Orleans, at premium of \$1150.

Md., Cambridge—Road—Dorchester County plans bond issue. Address County Commsrs.

Md., Hagerstown—Water Works—City, Daniel E. Downin, Tax Collector, receives bids April 30 for \$200,000 4 1/2% bonds.

Miss., Brandon—Road—Rankin County Board of Supvrs. will call election May 2 on \$85,000 bonds.

Miss., Gulfport—Road—Harrison County Board of Supvrs. plan selling \$75,000 bonds.

Miss., Gulfport—Road—Harrison County Board of Trustees, contemplate \$55,000 bond issue.

Miss., Hattiesburg—Road—Forrest County Paving Dist. No. 1 Highway Commsrs. will call election May 5 on \$150,000 bonds.

Miss., Jackson—Road—Hinds County Board of Supvrs. receives bids May 7 for \$200,000 bonds.*

Miss., Jackson—Street Improvement, Underpass, Sewer, etc.—City, Walter A. Scott, Mayor, will call election May 16 on \$400,000 bonds.

Miss., Monticello—School—Lawrence County Supvrs. will call election May 1 on \$40,000 Monticello Consolidated School Dist. bonds.

Miss., Nettleton—Street Improvement—Board of Aldermen plans calling election May 5 on \$5000 bonds.

Miss., Pass Christian—Street Extension—City contemplates \$25,000 bond issue. Address City Clk.

Miss., Pascagoula—School—St. Martin's Consolidated School Dist. petitioned Jackson County Board of Supvrs. to call election May 2 on \$15,000 bonds.

Miss., Purvis—School—Lamar County Board of Supvrs. will call election May 2 on \$18,000, Hickory Grove Line Consolidated School Dist. bonds.

Miss., Ripley—Road—Tippah County Board of Supvrs. will call election May 12 on \$225,000 bonds.

Miss., Charleston—Road—Tallahatchie County Board of Supvrs., Beat 3, sold \$80,000 bonds to Mississippi Bond & Securities Co., Jackson.*

Miss., Ellisville—Road—Jones County, Board of Supvrs., sold \$75,000 5 1/2% bonds of First National Bank, Laurel, at par, \$2300 premium and accrued interest.

Miss., Water Valley—Road—Yalobusha County Board of Supvrs. will call election May 2 on \$365,000 bonds.

Miss., Waynesboro—School—Wayne County Board of Supvrs. will call election June 3 on \$20,000 bonds.

Miss., Waynesboro—Road—Wayne County Board of Supvrs. will call election May 1 on \$100,000 bonds.

Miss., Woodville—Road—Wilkinson County

defeated \$100,000 bond issue. Address Board of Supvrs.*

Mo., Ash Grove—Water Works—City voted \$50,000 bonds; Bert Woolsey, Mayor.

Mo., Clayton—School—St. Louis County, Carondelet Township, voted \$77,000 bonds. Address Township School Board.

Mo., Fredericktown—School—City sold \$85,000 4 1/4% bonds to Commerce Trust Co. of Kansas City.*

Mo., Jefferson City—School—Jefferson City Board of Education sold \$200,000 bonds to W. R. Compton Co., 704 Locust St., St. Louis, at \$204,224.

Mo., Kirksville—School—City voted \$20,000 bonds. Address Pres. School Board.

Mo., Poplar Bluff—School—City voted \$75,000 bonds; will sell bonds. Address Supt. of Schools.*

Mo., Poplar Bluff—School—City sold \$75,000 4 1/2% Poplar Bluff School Dist. bonds to Joseph Ashcroft at premium of \$1657.50.

Mo., St. Joseph—Hospital—City sold \$75,000 5% coupon bonds to Ford & Porter, 517 Francis St., St. Joseph at premium of \$3775.

Mo., Steelville—School—Steelville School Dist. voted \$36,000 bonds. Address School Trustees.

Mo., Tuscumbia—School—City voted \$12,000 bonds. Address Pres. School Board.

Mo., Webb City—Street Paving—City voted \$40,000 bonds; L. O. Walker, Clk.*

N. C., Apex—Municipal Improvement—City sold \$45,000 sewer and \$90,000 5 1/4%, water bonds, to White-Phillips Co., Devonport, Iowa, at \$136,035.*

N. C., Beaufort—Road—Carteret County Commsrs. contemplate \$700,000 bond issue.

N. C., Canton—Improvement—City sold \$35,000 5 1/2% bonds to W. K. Terry & Co., Toledo, at premium of \$1227.

N. C., Graham—Road—Alamance County County Commsrs., B. M. Rogers, Clk., receives bids April 25 on \$600,000 6% \$100 denom. bonds.

N. C., Halifax—Funding—Halifax County Commsrs., W. T. Clement, Clk., receives bids May 11 for \$105,000 6% \$1000 denom. bonds.

N. C., Jackson—School—Northampton County Board of Commsrs., S. J. Calvert, Clk., will call election May 23 on \$15,000 6% Woodland Oline Special School Dist. bonds.

N. C., New Bern—Permanent Improvement Funding—Craven County Commsrs., G. A. Farrow, Clk., receives bids May 11 for \$375,000 5% \$1000 denom. bonds.

N. C., Salisbury—Municipal Improvement—Board of Aldermen sold \$600,000 4 3/4% bonds jointly to Carolina Securities Co., Inc., Greensboro; W. A. Herriman & Co., New York; Old Colonial Trust Co., Boston, and Edmunds Brothers, New York, at premium of \$5034.*

Okl., Davenport—School—City voted \$45,000 bonds. Address City Clk.

Okl., Holdenville—Sewer and Water—City receives bids May 5 on \$221,000 5 1/2% bonds; Jas. D. Rives, Mayor.

Okl., Mangum—Gas—City Comm. will call election April 23 on \$85,000 bonds.

Okl., Nowata—Road—Nowata County sold \$50,000 5 1/2% bonds to Brown-Crummer Co., Wichita, Kansas.

Okl., Tulsa—Water—City voted \$500,000 Spavinaw bonds; A. J. Rudd Mayor prof tem.*

Okl., Waurika—Road—Jefferson County Commsrs. contemplate voting on bonds.

S. C., Alken—School—Aiken County Board of Education, C. H. Seigler, Sec., sold to Citizens and Southern Bank of Augusta, \$35,000 5 1/4% Windsor School, and \$15,000 5 1/4% North Augusta School bonds; to Peoples Securities Co. of Charleston and White-Phillips Co., Davenport, Iowa, \$25,000 5 1/4% Wagener School Dist. and \$30,000 5 1/4% Langley School Dist. bonds, latter bonds sold at premium of \$477.50.

S. C., Florence—J. F. Stackley, Pres., Florence, and Armstrong J. Howard, V-P., Darlington, organized national bank with \$100,000, to take over assets of First National Bank, recently closed.

S. C., Liberty—Sewer—City voted \$50,000 bonds. Address City Clk.

S. C., Mullins—Street Improvement—Town, Wilbur F. Smith, Clk., receives bids April 27 for \$50,000 5% bonds.*

S. C., Sumter—Road and Bridge—Sumter County Permanent Road Comn., J. J. Brennan, Sec., receives bids May 7 for \$25,000 5%, \$1000 denom. bonds.

S. C., Wagener—School—City voted \$25,000 bonds. Address Board of Trustees.

Tenn., Cleveland—Street Paving—City, G. K. Hardwick, Jr., Mayor, will sell \$50,000 bonds.

Tenn., Huntingdon—Indebtedness—Carroll County contemplates \$50,000 bond issue; Wilson Enochs, Judge.

Tenn., Knoxville—Water Works—City plans selling \$2,500,000 bonds; Louis Brownlow, City Mgr.

Tenn., Memphis—Improvement—Yazoo & Mississippi Valley R. R. Co., M. B. Morgan, Dist. Engr., Memphis, requested authority Interstate Commerce Comn., to issue \$3,493,000 5% gold bonds.

Tenn., Paris—Indebtedness—Henry County Court contemplates \$75,000 bond issue. Address County Commsrs.

Tenn., Selmer—Road—McNairy County, voted \$200,000 bonds; sold 5 1/4%, \$1000 denom. bonds to I. B. Tigrett & Co., Selmer and Memphis, at par, accrued interest and premium of \$875.*

Tex., Austin—School—City will vote soon on \$103,000 bonds; Dr. Geo. N. Decherd, Pres. Board of Education; A. N. McCallum, Supt. of School.

Tex., Austin—School—School Board, A. N. McCallum, Supt., contemplates \$100,000 bond issue.

Tex., Austin—Sewer—City, W. D. Yett, Mayor, contemplates \$100,000 to \$125,000 bond election.

Tex., Bertram—School—L. E. Tunstall, Sec. Bertram Independent School Dist., will receive bids May 1 for \$15,000 bonds. Address "School Bonds," First National Bank.

Tex., Big Springs—Water Works—City voted \$30,000 bonds, J. W. Middleton, Sec.*

Tex., Brownsville—School—El Jardin Dist. voted \$85,000 bonds. Address Pres. School Board.

Tex., El Campo—Municipal Improvement—City defeated bond issue; W. A. Ballew, Mayor.*

Tex., Childress—Street Improvement—City voted \$65,000 5% bonds; J. E. Baker, City Clk.; Will P. Jones, Mayor.*

Tex., Cleo—School—Cleo Dist. voted \$17,500 bonds; Ray Sheffy, Judge.*

Tex., Comanche—Water Works—State Comptroller of Texas sold \$70,000 5% bonds to First National Bank of Comanche at par.

Tex., Comanche—Water Works—City, J. R. Eaves, Mayor, contemplates \$50,000 bond election.

Tex., Flatonia—Water, Sewer—City voted \$70,000 bonds; Municipal Engineering Co., 1715 Praetorian Bldg., Dallas.*

Tex., Galveston—Grade Raising—City votes May 12 on \$2,000,000 bonds. Address City Clk.*

Tex., Gonzales—Road—Gonzales County, J. C. Romberg, County Judge, sold \$109,000 5 1/2%, \$1000 denom. bonds to Taylor, Ewart & Co., Chicago, and Detroit Trust Co., and Braun Bosworth & Co., Toledo, at par, accrued interest and premium of \$3876.*

Tex., Graham—Road—Young County votes April 25 on \$110,000 5 1/2%, Road Dist. No. 2 bonds. Address County Commsrs.

Tex., Hood—School—Board of Trustees, Hood Independent School Dist., plan calling \$17,000 bond election.

Tex., Houston—Municipal Improvement—City, O. F. Holcombe, Mayor, voted \$4,975,000 bonds; \$1,100,000, bridge; \$500,000, roadways; \$750,000, street paving; \$300,000, macadam paving; \$75,000, three incinerators; \$250,000, sanitary sewers; \$350,000, storm sewers; \$750,000, water-works improvement; \$250,000, subways; \$350,000, farmers' market; \$300,000, park improvement; Wm. A. Moore, Sec.*

Tex., Idalou—Water Works—City will vote on \$40,000 bond. Address City Clk.

Tex., Journdanton—School—Journdanton Independent School Dist. voted \$35,000 bonds. Address Board of Education.

Tex., Kingsville—School—City voted \$75,000 bonds. Address Board of Trustees.*

Tex., Littlefield—Water Works—City voted \$75,000 bonds; B. L. Coggill, Mayor.

Tex., Littlefield—School—School Board of Littlefield Independent School Dist. will call election May 2 on \$100,000 bonds. Arthur P. Duggan.*

Tex., Mexia—School—City voted \$100,000 bonds. Address Pres. School Board.

Tex., Montague—Road—Montague County, Nocona, Bonita, and Belcherville Dists. voted \$65,000 bonds. Address County Commsrs.

Tex., Newton—School—Newton Independent School Dist. voted \$30,000 bonds; sold bonds to H. C. Burt, 718 McKinney St., Houston.

Tex., Park Place—Town, Geo. L. Charlton,

if the Manufacturers Record is mentioned.

CONSTRUCTION DEPARTMENT

Manufacturers Record

Mayor, voted \$85,000 street paving and \$15,000 sewer extension bonds; E. G. Sloan, Engr., 5050 Stewart Bldg., Houston.

Tex., Ralls—School—School Board, Will Marr., Pres., will call election May 2 on \$65,000 5% bonds.

Tex., Richmond—Road—Fort Bend County Comrs. Court will call election May 30 on \$435,000 bonds.

Tex., San Angelo—Municipal Improvement—City, E. F. Jackson, Mgr., receives bids Apr. 30 for about \$300,000 5% bonds.*

Tex., Waco—Street Opening—City, E. E. McAdams, Mgr., voted \$150,000 bonds.*

Tex., Waco—Street Improvement—City, E. E. McAdams, Mgr., votes May 16 on \$250,000 bonds. Lately noted election May 12.

Tex., Waxahachie—Road Improvement—Ellis County, C. T. Spalding, County Auditor, sold \$750,000 5% bonds to J. T. Bowman, Austin, at 101.27 and accrued interest.

Tex., Wichita Falls—Sewer—City contemplates \$175,000 bond election; R. E. Shepherd, County Judge.

Va., Abingdon—School—City votes April 28 on \$50,000 bonds. Address Town Clk.

Va., Bedford—Hydro-Electric Plant—Town, C. A. Moore, Treas.-Clk., sold \$100,000 5% bonds to Braun, Bosworth & Co., Toledo, at \$100,639 and accrued interest.*

Va., Bedford—Hydro-Electric Plant—Bedford County voted \$100,000 bonds. Address County Comms.*

Va., Bland—Road—Bland County Board of Supvrs., Seddon, Rocky Gap and Mechanicsburg Dists., contemplate \$150,000 bond election.*

Va., Fairfax—School—J. F. Haverry, Town Clk., receives bids May 1 for \$75,000 Falls Church School Dist. bonds.

Va., Hopewell—Municipal Improvement—City, Roy S. Braden, Mgr., plans \$525,000 bond issue.

Va., Princess Anne—Road—Princess Anne County, Kempsville Dist., votes soon on \$250,000 bonds. Address County Comms.

W. Va., Berwind—School—Board of Education of Big Creek Dist., E. M. Cooley, Sec., receives bids May 30 for \$300,000 5½% bonds.

W. Va., Charleston—Bridge—Kanawha County Comms. contemplate bond election.

W. Va., Martinsburg—School—Board of Education will call election June 2 on \$310,000 bonds; L. W. Burns, Supt. Martinsburg Independent School Dist.*

W. Va., Pineville—Road—Wyoming County, voted \$121,000 bonds. Address County Commissioners.

W. Va., Summersville — Road—Nicholas County contemplates \$1,000,000 bond election. Address County Comms.

State Bank & Trust Co., of Dallas, Tex., capital \$200,000, plans organizing under name of State National Bank of Dallas.

Richmond Trust Co., John Skelton Williams, Pres., Richmond, Va., purchased Hopewell Branch of Union Trust & Mortgage Co. of Petersburg.

Garfield National Bank, Enid, Okla., changed to Garfield County Bank; Enid National Bank changed to Enid Bank & Trust Co.

Trade Literature

Anchor Post Iron Works Products.

An illustrated folder issued by the Anchor Post Iron Works, 50 Church street, New York, gives full particulars about the wire fences, iron railings and gates which they manufacture, with sundry pictures showing them in use. The varied uses of these fences, railings and gates are briefly described. Other products of this industry are the Anchor all-steel hand trucks, which it is stated have exceptional strength, combined with lightness and ease in handling.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

General Electric Electrodes.

"G. E. Welding Electrodes" is the title of a little illustrated booklet of 16 pages lately issued by the General Electric Co., Schenectady, N. Y. It describes the characteristics and applications of the three types of electrode made by this company and which are designated as Types A, B and C. Brief instructions are given concerning the use of each of these types.

New Shovel Bulletin.

A large, new bulletin issued by the Thew Shovel Co., Lorain, Ohio, gives testimonials with full particulars about Thew shovels, as they are now equipped with the center-drive truck, having smooth, continuous treads. Several half-tone reproductions of photographs show these shovels at work upon various jobs.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Exposition of Inventions.

The American Institute of the city of New York is going to hold its Exposition of Inventions in that city during the week of April 27 to May 2, inclusive. The exposition will be at the Engineering Societies' Building, 25-33 West Thirty-ninth street, and will open on Monday evening at 8 o'clock, but on the ensuing days of its duration it will be open from 11 A. M. to 11 P. M. A booklet issued by the management says that the exposition is limited to displays of proved—or readily demonstrable—worth and significance, and its purpose is to acquaint the public with the remarkable current fertility of American inventive genius and to provide for individual inventors and companies owning or having developed inventions, an introduction of their achievement to the general public. It is remarked that as early as the year 1828 the institute was encouraging American inventions.

Berg Concrete Surfacer and Finisher.

The new concrete bridge over Paint River at Crystal Falls, Mich., which is said to be the largest concrete arch bridge in that state, and which was built for the Michigan State Highway Department by Smith-Holmes-Burridge-Sparks, general contractors, was given its smooth surface largely by the use of the Berg Concrete Surfacer and Finisher, which is manufactured by the Concrete Surfacing Machinery Co., 4669 Spring Grove avenue, Cincinnati, Ohio. This device, which is a small, portable machine operated by electricity (either direct or alternating current) displaces the slow and expensive hand smoothing and surfacing of concrete structures. For the construction of this bridge the most modern and approved methods of work were employed, including this machine.

George C. Holmgreen.

George C. Holmgreen, vice-president of the Alamo Iron Works, San Antonio, Texas, died recently there after a short illness. He had undergone a surgical operation several months ago and had apparently recovered from its effects, but about three weeks before his death he again became ill with fatal result. Mr. Holmgreen was a native of San Antonio and was in the 41st year of his age. Following a collegiate education he became interested in business with his father, J. H. Holmgreen, who is president of the company. He was also president of the Alamo Steel & Supply Co. of Houston.

Ferrubron an Anti-Rust Metal Paint.

Ferrubron Paint is described in a recently issued folder as a product which prevents rust everywhere, being a 95-per-cent-pure "laminated peroxide of iron which nature alone wrought into an ideal paint base." Besides being used on metal it can be employed for painting wood, brick and concrete under exposure to dampness. It is used for painting by many industrial companies, including paper mills, textile mills, flour mills, elevators, manufacturers of cereal products, water works, gas plants, chemical works, coal companies, salt factories, sugar refineries, ice and cold-storage plants, packers, canners, fertilizer works and many others and the folder contains extracts from their numerous testimonials. The Eiffel Tower, 1000 feet high at Paris, is painted with it. This paint is made by the Ferrubron Metal Paint Co., 518-520 Prairie street, Milwaukee, Wis.

New Research Service.

As the capital of the nation, Washington is the repository of a tremendous amount of information concerning, literally and actually, a thousand and one different lines, but much of this is difficult of access to persons not acquainted with the appropriate sources of supply or the best and quickest means of reaching them. So, several information bureaus have been established, to which such inquirers may apply. Most recent of these, and one of the most important, is the Research Service, Inc., consulting engineers and business representatives, Investment Building, Washington, D. C., which is organized "to supply special information, make investigations and reports, furnish contacts with the various bureaus and their officials and supply part-time representation for outside organizations." Composing the staff are such prominent experts as F. H. Newell, who organized the hydrographic branch of the United States Geological Survey and later the Reclamation Service, secretary of the National Geographic Society and secretary of the American Forestry Association; W. M. Corse, with over a quarter of a century's experience in the chemical and metallurgical field, and A. B. McDaniel, a practicing and consulting civil engineer of wide experience. All three also are experienced in research work.

Westinghouse Acceptance Corporation.

The Westinghouse Acceptance Corporation, a \$2,000,000 enterprise, has been formed by the Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., to aid customers in financing time-payment sales, and G. Brewer Griffin, recently manager of the Westinghouse automotive equipment department, will be vice-president and general manager of the new organization. It is stated that this financial service to dealers and manufacturers will assure more rapid and profitable turnover of their capital involved in time-payment transactions, etc. Mr. Griffin's offices and operating forces are at the East End Trust Building, Pittsburgh, Pa. Branches will be opened in other cities as they become necessary. E. M. Herr is chairman of the board of the Acceptance Corporation and F. A. Merrick is president. H. F. Baetz is vice-president and treasurer and Jas. C. Bennett is comptroller and secretary.

(Continued on page 129.)

Just off the Press!

"Budget Control"

*A Business Booklet on the Subject of
Growth and Profits Protection
thru BUDGETING*

The Budget is the one form of business plan that sets up a definite goal for the future and also provides a safeguard against future loss. It prevents over-production, over-expansion, leaks and waste.

Our new booklet, "Budget Control," represents the successful and best experience of modern management. It shows how every detail of buying, production, financing and selling can be planned in advance—*then checked with and regulated by actual operations to assure profits and prevent loss.*

Control thru a well-planned and carefully observed Budget is *grip* control. It keeps the business in hand every minute—plant, money, material, personnel and activity.

"Budget Control" is just off the press and will be mailed to executives on request. Address nearest office.

ERNST & ERNST

AUDITS - SYSTEMS
TAX SERVICE

NEW YORK	CLEVELAND	DETROIT	MINNEAPOLIS	LOS ANGELES
BUFFALO	CINCINNATI	GRAND RAPIDS	ST. PAUL	ATLANTA
ROCHESTER	TOLEDO	KALAMAZOO	DAVENPORT	JACKSON
BOSTON	COLUMBUS	PITTSBURGH	INDIANAPOLIS	NEW ORLEANS
PROVIDENCE	YOUNGSTOWN	WHEELING	ST. LOUIS	DALLAS
PHILADELPHIA	AKRON	ERIE	KANSAS CITY	HOUSTON
BALTIMORE	CANTON	CHICAGO	OMAHA	FORT WORTH
WASHINGTON	DAYTON	MILWAUKEE	DENVER	SAN ANTONIO
RICHMOND	LOUISVILLE	MEMPHIS	SAN FRANCISCO	WACO

Cotton Prospects in Mesopotamia—Progress Reported as Very Slow.

Manchester, England, April 10—[Special.]—W. H. Himbury, general manager of the British Cotton Growing Association, who has just returned from a visit to Iraq, Mesopotamia, in order to obtain first-hand knowledge as to the general conditions under which cotton is grown in that territory, in a special report issued to the council of the corporation states that after his short visit he is inclined to think that the political factor is one of the most important questions, affecting not only cotton growing but also the general economic development of Mesopotamia.

The climate in Iraq is pretty well defined—a cold season, which coincides with the English winter, and a hot season. The planting of cotton commences during March and is continued for several weeks. Around north and northwest Bagdad the prospects for growing cotton are rather encouraging. It has an excellent black soil, and as the land has a slight slope it provides natural drainage. Here there was no evidence of salt. New land, however, is being brought under cultivation, and, according to reports made to Mr. Himbury, there is only sufficient water with which to grow the present crops—that is, wheat, sesame, rice, cotton, etc. With regard to insect pests, these are not very important at the moment, but a big enemy to the crops is the locust, but so far this insect has not affected cotton to any serious degree.

Mr. Himbury expects that the present growth—2,967,365 pounds of seed cotton—will be increased before the season ends. He thinks the crop will exceed 2500 bales, which shows quite good progress upon that of last year. He looks for a steady increase in the production of cotton from Iraq. Progress, however, will be slow. Mr. Himbury made a brief survey of the cotton-producing areas in Palestine, but came to the conclusion that the prospects for cotton in that country were practically nil.

Pythian Castle to Cost \$500,000.

At the recent annual convention at Frederick, Md., of the Grand Lodge of Maryland, Knights of Pythias, a decision was reached to build this year a new Pythian Castle at Charles and Preston streets, Baltimore, to cost approximately \$500,000. It is understood that the proposed building will be four stories, the first floor for stores and shops, second for hall and dining rooms and the remaining floors for lodge rooms. Clyde N. Friz and Nelson Friz of Baltimore are the architects, and Richard Laws Lee, also of Baltimore, is chairman of the building committee.

May Build \$1,000,000 Hotel at Sebring.

Negotiations are in progress looking toward the erection of a \$1,000,000 hotel at Sebring, Fla., by Charles E. Gehring of New York, publisher of the National Hotel Review, and associates. Discussing the proposed hotel, Mr. Gehring wires the MANUFACTURERS RECORD that negotiations have not been consummated, but are developing favorably.

The hotel, it is stated, will be located between the Country Club and Highland Towers, and will contain 200 rooms. It will be included in the Biltmore system.

Zinc Ore Deposits Reported.

Morristown, Tenn., April 18—[Special.]—Large deposits of zinc ore in the mountains adjacent to this city are reported to have been discovered, and it is said that an engineer and geologist are now en route to the field for further prospecting. The lands are in the hands of officials of the local Chamber of Commerce for development.

Permanent roads are a good investment—not an expense

The High Cost of Postponing Permanent Highway Building

Poor motor roads stifle industry and agriculture, waste huge sums annually in high maintenance costs, and greatly increase gasoline, tire and repair bills.

There is not a state, not a county, not a community, that isn't paying a heavy price for having too few permanent roads.

There are still many sections of the country—even whole states—that are trying to operate twentieth century traffic over nineteenth century roads.

This is costing millions of dollars every year, and will keep on costing millions until we have well developed permanent highway systems everywhere.

Even what we often call the more progressive communities are far behind the demands of modern highway traffic with its 17,000,000 motor vehicles.

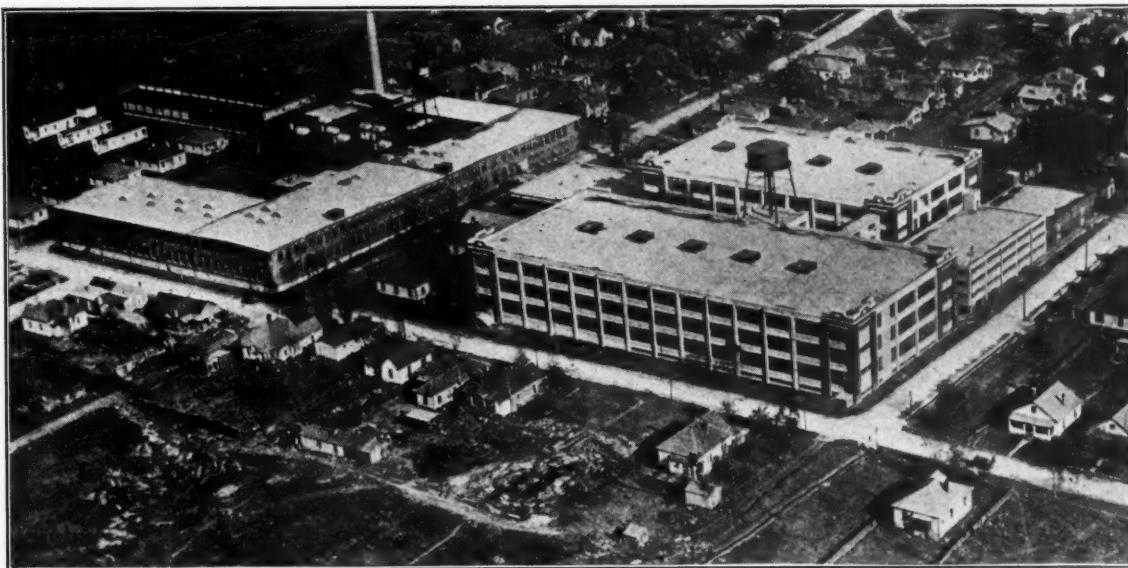
From the Atlantic to the Pacific, and from Canada to Mexico, we need more Concrete roads—the roads for twentieth century traffic.

Your highway officials want to be of the greatest possible service to you. Get behind them with ways and means that will provide more Concrete roads and streets. Such an investment will pay you big dividends year after year.

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta	Birmingham	Boston	Charlottesville, N.C.	Chicago	Dallas	Denver	Des Moines	Detroit	Indianapolis	Jacksonville	Kansas City	Los Angeles	Memphis	Milwaukee	Minneapolis	New Orleans	New York	Oklahoma City	Parkersburg	Philadelphia	Pittsburgh	Portland, Oreg.	Salt Lake City	San Francisco	Seattle	St. Louis	Vancouver, B.C.	Washington, D.C.
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View of the 58,000 spindle mill of the Standard-Coosa-Thatcher Company at Chattanooga, using 3,000 horsepower from the lines of The Tennessee Electric Power Company.

You Don't Need a Power Plant in Tennessee

The private power plant has been an institution in American industry. It is doing and will continue to do valiant service in those localities that are removed from the large power generation and transmission systems of today.

Here in Tennessee the private power plant must bow to the greater efficiency and economy of power furnished from one of the largest hydro-electric systems of the country.

As a manufacturer planning a Tennessee location for a new mill, you can eliminate the cost of the power plant. You can save the money it would cost to build it—you can save the money it would cost to maintain it—you can save the money, trouble and inconvenience that complicated power transmission equipment entails. In Tennessee the power company assumes your burden and you in turn are furnished with electricity at unusually low rates.

Hundreds of manufacturing establishments in Tennessee are supplied with continuous and thoroughly dependable power service twenty-four hours of every day from the system of The Tennessee Electric Power Company. With 275,000 horsepower installed in hydro-electric and steam reserve plants and inter-connections with the southeastern super-power system, this company guarantees ample and continuous power service to all new industries locating in this section.

*Write us for information about Tennessee opportunities
or address Secretaries of local Chambers of Commerce.*

**The Tennessee Electric Power Co.
CHATTANOOGA, TENNESSEE**

EVIDENCES of SUCCESS of *Can You Afford to Miss*

During the past few months our advertisements have been telling how the active, far-sighted Southern business interests were steadily arranging for exhibit space to advance their own interests as well as those of the South.

The extent to which the value of the Exposition is being more and more appreciated is gratifying to those who have cheerfully carried the burden of organizing the Exposition, and now that all realize it will be a success we offer those who have been holding back, a last chance to come in.

Some exhibit space can be obtained if those considering representation will act quickly and telegraph or call at once for information. We will do our part in promptly handling all inquiries and assisting in arranging the booths. We have every facility known in exposition work and our specialists are equipped to do anything required on short notice.

SOUTHERN EXPOSITION

Grand Central Palace, New York, May 11-23, 1925

SOUTHERN EXPOSITION

This Great Opportunity?

This is a day when the public wants not only to read but to *see* and *hear*. Witness the popularity of moving pictures and the Sunday supplements, and the radio.

You know your products, but the buying public only knows of them through printed advertisements.

By exhibiting at the Southern Exposition you can *show* the actual goods to thousands of customers, present and prospective. Your representatives can *tell* visitors their merits.

There has never been an exposition in New York before where the sons and daughters of the South were practically unanimous in endorsing it. Their support guarantees the widest possible publicity and the highest class [of patronage.

Can you afford to stay out?

Telegraph today. We want *you*.

SOUTHERN EXPOSITION

Grand Central Palace, New York, May 11-23, 1925

The Florida Society of America Will Pay

\$20,000 IN CASH

For the Name of a Product Which is Best Suited for Manufacture in Florida

Somewhere there is someone who knows, or can find, what product is best suited for manufacture in the state of Florida!

Ten thousand dollars in cash will be paid that person for his idea!

Ten thousand dollars more will be distributed to the public for other good suggestions as to what products should be manufactured in the southernmost state!

The Florida Society of America, sponsor of the Florida Industrial Contest, wants to know what products can be manufactured to best advantage in Florida! The Society, through its founder and president, Joseph W. Young, has set aside the sum of \$20,000 as cash rewards for those who will help to find the solution to this problem.

Florida, it is agreed, is destined to become one of the most important centers of industrial activity, manufacturing, and commerce in the world. Its progress in this direction has been retarded for the reason that Florida has been known chiefly as a winter resort state—but the awakening has come. Florida is not for the few alone—it is for the multitudes! It is now making room for Industry and Industry's partner—the Working Man.

The Florida Society of America believes that the assured industrial growth of the state should be carefully fostered and not permitted to grow up in haphazard manner; that every new manufacturing industry should be chosen with an especial eye to the advantages which may accrue from the manufacture of that particular commodity.

What, then, above all other things, should be manufactured in Florida?

Everybody, everywhere, is eligible to compete in the Florida Industrial competition, excepting only the officers and employees of the Florida Society of

Information, together with detailed explanation of the Florida Industrial Contest, the rules and list of prizes, will be mailed you FREE and WITHOUT OBLIGATION upon receipt of the attached coupon, which properly filled out, constitutes your official registration in the contest.

America. Your opportunity to name the prize-winning product and inherit a cash fortune is equal to that of any other person.

You have often thought: "How I would like to find a fortune!"

You may find it here—it is worth your try.

An extra first prize of \$1,000, second of \$500, and third of \$250 will be awarded for the best suggestions received on or before June 1, 1925.

Similar prizes will be given the public for suggestions received between June 1 and October 1, and between October 1 and January 1, 1926. The winners of these contest periods will constitute the eligible contestants for the three grand prizes of \$10,000, \$4,000 and \$1,000 which will be awarded at the close of the contest on January 1.

Each contestant is limited to not more than three suggestions—one for each contest period. Each suggestion must be accompanied by an explanatory statement of NOT LESS than fifty words. Both name and reason will be considered in naming the winners, the reasons to be judged from the standpoints of logic and economic soundness. Basic elements which should be included in consideration of the contest subject include climatic advantages, geographic situation, transportation facilities and the physical properties and natural resources of Florida.

The judges will comprise a committee specially appointed by the Florida Society of America.

To better consider the problem from all angles you will need complete information about Florida and its possibilities.

The first distribution of cash prizes will occur on June 1. YOU will want to try for one of them!

The Florida Industrial Contest

**The Florida Society of America
Hollywood, Florida**

THE FLORIDA INDUSTRIAL CONTEST Contest Department The Florida Society of America Hollywood, Florida	Coupon
Please send me free of charge and without obligation on my part, The Florida Industrial Contest booklet, containing information which will be helpful to me in entering this competition.	
NAME	
ADDRESS	
Manufacturers Record, April 23, 1925	

BUILDING FLORIDA FOR THE WORKING MAN

(Continued from page 122.)

Goes With Burnley Machinery Co.

C. W. Miller, formerly manager of the Sullivan Machinery Co., at Scranton, Pa., is now with the Burnley Machinery Co., at Oklahoma City, Okla., specializing on compressed air and pulverized fuel equipment.

New Vice-President of Hammond Iron Co.

J. W. Porter, formerly vice-president and general manager of the Alabama Company, has been elected vice-president of the Hammond Iron Company, successor to the Hammond-Byrd Iron Company, Birmingham, Ala., and he will be actively in charge of the company's coal, coke and pig-iron business. Mr. Porter's experience and knowledge of the Birmingham district, gained from 25 years' activity in the coal and iron industry, more than amply qualify him for his new post.

Change of Business Connection.

Lindsey E. Thompson, until recently sales manager of the National Sewer Pipe Co. of Webster City, Iowa, has severed his connection with them to accept a position as field engineer of the Illinois Paving Brick Manufacturers' Association with headquarters at Webster City. Mr. Thompson has had practical experience in many branches of engineering.

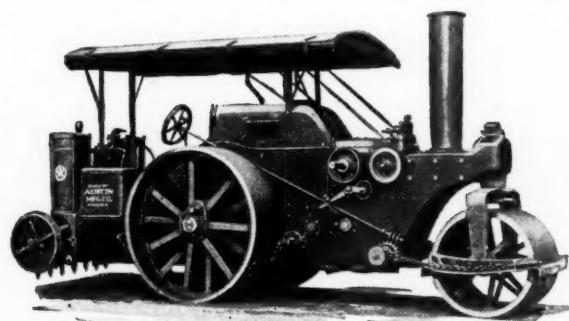
James E. Brady.

James E. Brady, who died at his home in Covington, Ky., on April 10 at the age of 67 years after a short illness, was for 35 years traveling representative for the John H. McGowan Company, pumping machine manufacturers of Cincinnati, Ohio, his business territory being in the South, where he placed many municipal water-works plants; also water plants for numerous industries; he was very

widely known, with many friends throughout this section. Mr. Brady was a native of Covington and spent his early youth in the foundries and machine shops of Cincinnati, receiving a thorough, practical training in mechanical practice, but most of his business life was with the McGowan Company. He leaves a widow, seven children and five grandchildren, besides a brother and a sister.

Harnischfeger Branch at Birmingham.

A new branch office has been established at Birmingham, Ala., by the Harnischfeger Corporation (formerly Pawling & Harnischfeger Co.) of Milwaukee, Wis., and James Van Buskirk has been transferred from the Detroit office to take charge of the Birmingham office, which is at 431 First National Bank Building. H. E. Mensch has recently been placed in charge of the Detroit office, which is at 452 Book Building.

The Oscar T. Smith Company**Manufacturing Bank Stationers****407-9-11 E. SARATOGA STREET
BALTIMORE, MD.****OSCAR T. SMITH
President****AUSTIN FOUR-CYLINDER MOTOR ROLLERS****Three-Wheeled and Tandem Types**

All of the time-tested features which are responsible for the ever-increasing popularity of Austin Motor Rollers—the first ones built in this country (1907)—are included in the new four-cylinder model. When you consider that what you buy is a *Roller* and not simply a motor, this fact cannot be held too important. A thorough investigation will convince you of the value of the fundamental principles underlying the construction of these rollers.

*Let us explain them to you.***THE AUSTIN-WESTERN ROAD MACHINERY CO.
400 N. Michigan Avenue****CHICAGO****Bond, Stock and Security Issues****engraved or printed
as you want them**

We have specialized on this work for more than 40 years, and can furnish highest credentials as to character and quality of work and absolute responsibility. Let us send samples and quote on your requirements.

Security Bank Note Company
PHILADELPHIA
223-5-7 Chestnut St.

NEW YORK
20 Broad St.**GALVANIZING**

Our hot dip process makes the iron of today run a close race with the iron of ancient times. Some pieces of Roman iron still exists, but the annual loss of modern ungalvanized iron, due to corrosion, is 3 per cent of the production.

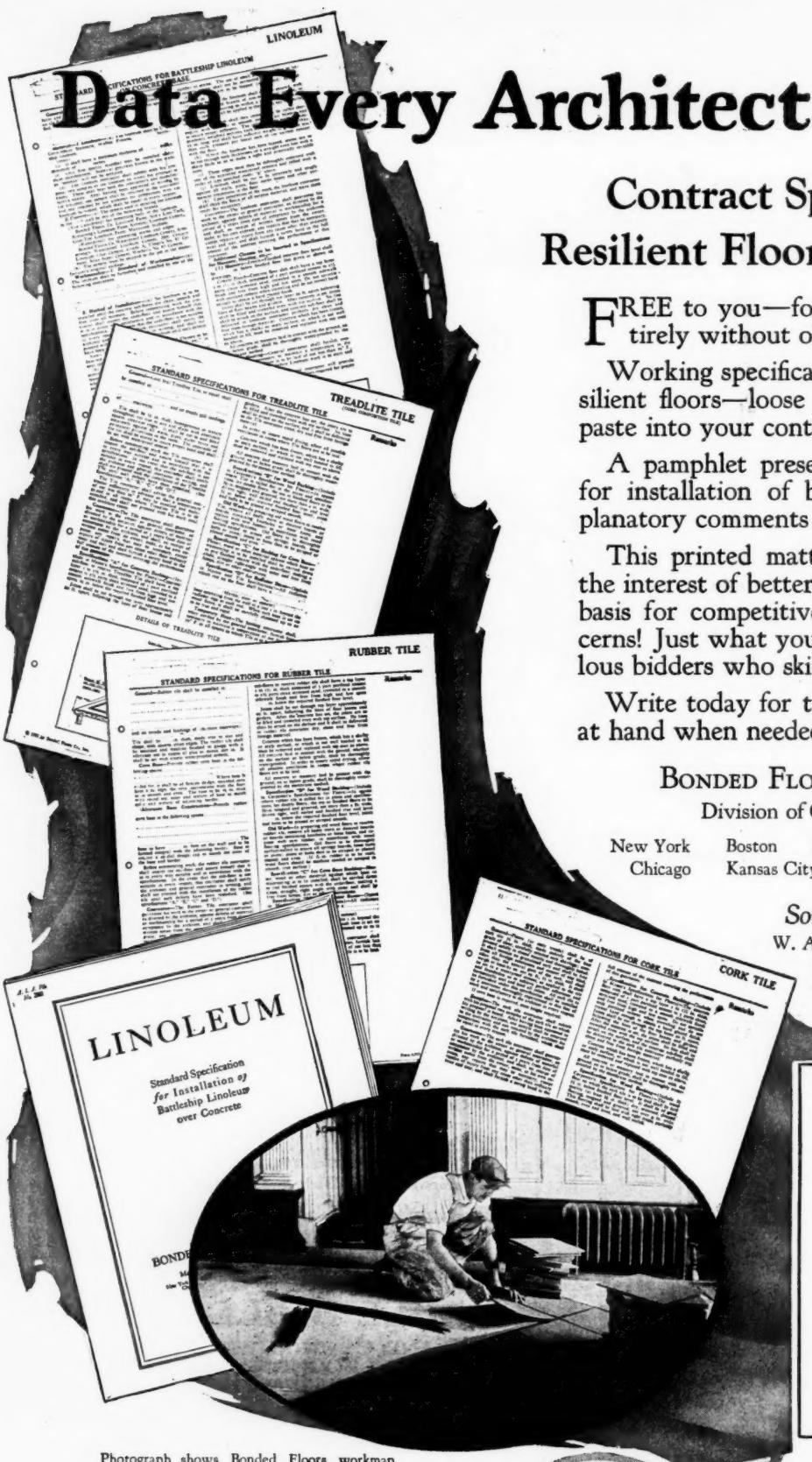
Galvanize and save your part of this awful waste.

BESSEMER GALVANIZING WORKS
American Trust Bldg., BIRMINGHAM

MILL BUILDERS
FLOUR AND CORN MILL MACHINERY
EFFICIENCY ECONOMY DURABILITY
ROLL CORRUGATING A SPECIALTY
SALEM FOUNDRY AND MACHINE WORKS, INC.
SALEM - VA.

"**STANDARD**"
MOTOR TRUCK RAILROAD TRACK **SCALES**
THE STANDARD SCALE & SUPPLY CORPORATION
1631 Liberty Avenue, Pittsburgh, Pa.
Chicago, Cleveland, Philadelphia, New York

April 23, 1925



Photograph shows Bonded Floors workman installing Treadlite Tile, over a canvas base, in dining cabin of steamship City of Montgomery.

BONDED FLOORS

Resilient Floors



Data Every Architect Can Use— Contract Specifications for Resilient Floors—Ready at hand

FREE to you—for your convenience—and entirely without obligation!

Working specifications for various types of resilient floors—loose sheets, all ready to write or paste into your contract specifications.

A pamphlet presenting complete specifications for installation of battleship linoleum, with explanatory comments covering every step.

This printed matter is offered to architects in the interest of better floors. Data to provide a fair basis for competitive bidding by reputable concerns! Just what you need to eliminate unscrupulous bidders who skimp on quality!

Write today for the full set, so that they'll be at hand when needed.

BONDED FLOORS COMPANY, INC.

Division of Congoleum-Nairn Inc.

New York Boston Philadelphia Cleveland Detroit
Chicago Kansas City San Francisco Los Angeles

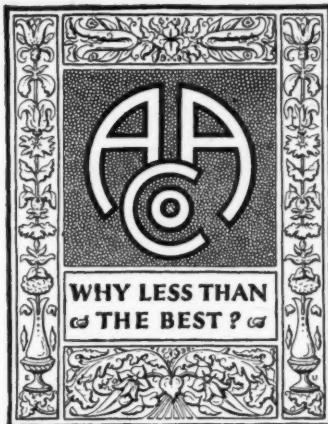
Southern Contracting Distributors

W. A. LIPPINCOTT, Inc. S. W. NICHOLS CO.
172 Spring Street 2116 Jackson Street
Atlanta, Georgia Dallas, Texas
Distributors in other principal cities

BONDED FLOORS CO., INC.

Without charge, or obligation on my part, please send me the following (check which):

- Working Specifications for
- Battleship Linoleum Cork Tile
- Treadlite Tile Rubber Tile
- Explanatory Specification for battleship Linoleum, including the new Federal Specification and other data.



FOR THE ANSWER TO “WHAT IS IT WORTH?”

The value of the publishing rights for a dictionary and the value to the water rights of a small mountain range, the value of the basic patent for fuses in high explosive shells, the value of a great municipal harbor project, the conversion value of breweries, the value of good will on one of the nation's foremost concerns, the value of hundreds of highly specialized machines [the only ones of their kind in existence]—these represent but a few of the unique tasks upon which The American Appraisal Company has been recently engaged.

For nearly thirty years this organization has been developed to handle intricate problems of valuation swiftly and accurately.

An experience of the greatest diversity, an organization of more than a thousand individuals, a carefully guided and clear-cut conception of the bases of value assure the intelligent handling of any problem of property analysis and valuation.

Why use less than the best?

THE AMERICAN APPRAISAL COMPANY
Milwaukee

Healey Building
ATLANTA, GA.

Munsey Building
BALTIMORE

[Whitney Central] Building
NEW ORLEANS

Railway Exchange Building
ST. LOUIS

Atlanta
Baltimore
Boston
Buffalo
Chicago

Cincinnati
Cleveland
Dallas
Detroit
Indianapolis

Los Angeles
Milwaukee
Minneapolis
New Orleans
New York

Philadelphia
Pittsburgh
San Francisco
St. Louis
Seattle

Syracuse
Washington
The Canadian
Appraisal Company, Ltd.
Montreal
Toronto

Send for these
American Appraisal
Pamphlets

R-47—What is Your
Plant Worth?

R-427—Appraisals
and the Profit and
Loss Statement

R-426—Industrial
Appraisals and
Insurance

An American Appraisal

THE AUTHORITY

Investigations • Valuations • Reports • Industrials • Public Utilities • Natural Resources

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Thousands of Investors with Millions in Resources

*Will help you carry out
your building plans*

Scattered over the United States and a score of foreign countries are an army of Adair investors with resources which total millions of dollars.

Through the Adair Realty & Trust Company, this accumulated capital is made available to Southern builders in need of funds for the construction of income producing buildings which will constitute sound security for first mortgage loans.

*Write today for full information about the
Adair Plans of Financing New Structures.*

*Address Mortgage Bond Department
Dept. MR- 5*

Adair Realty & Trust Company

The South's Oldest Mortgage Investment House

Founded 1865 - - ATLANTA



Constant contact with real estate building and leasing in the South for 60 years has given to this organization an intimate knowledge of all phases of the builder's problems, and proven solutions to most of them.

Our Guaranteed First Mortgages on Homes

7%

We take them in our name, endorse them over to you, and guarantee them. You own the whole loan. Better than Bonds.

Let us tell you why. Interest sent to your door by mail quarterly.

24 years in business, and never a loss. References: Any Bank or Trust Company in Savannah,

G. A. MERCER COMPANY, INVESTMENT BANKERS
Assets and Resources More Than \$1,000,000

SAVANNAH, GA.

Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

A.C. ALLYN AND COMPANY

71 W. Monroe St., Chicago, Ill.
New York Milwaukee Minneapolis Boston

HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS,
INCLUDING CITY, COUNTY, SCHOOL,
PAVING, ROAD AND DRAINAGE

The Hanchett Bond Co. Inc.
39 SOUTH LA SALLE ST., CHICAGO

WE ARE MUNICIPAL BOND BUYERS

"Always In The Market"

The Weil, Roth & Irving Co.
Dixie Terminal Bldg. Cincinnati, O.

LOANS TO STATES, COUNTIES AND CITIES

Municipal Bonds

EYER & CO.

Established 1907

Correspondence Invited

57 William Street

New York City

JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

We Buy Bonds

City, County, School and Road from
Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI

OHIO

If you want to reach **SOUTHERN BUSINESS**

Advertise in the

MANUFACTURERS RECORD

Maybe This Bank Is Different From Others

Its policy is pleasing 16,000 customers who are its friends. Address us in regard to your financial requirements.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00 Member Federal Reserve System

FOURTH NATIONAL BANK MACON, GA.

In close touch with all of Georgia, offers its aid to those interested in that State.

MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

IN RICHMOND VIRGINIA

The First National Bank offers complete facilities for quick collections in this territory.

F I R S T NATIONAL BANK

JOHN M. MILLER, JR.,
President

Resources over \$30,000,000
Capital and Surplus \$4,000,000

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.

Brown-Marx Bldg.

Birmingham, Ala.

RAILROAD, PUBLIC UTILITY and INDUSTRIAL BONDS

Entire Issues Bought

ROGER B. WILLIAMS, Jr. & CO.

Investments Bonds

67 Wall Street

New York

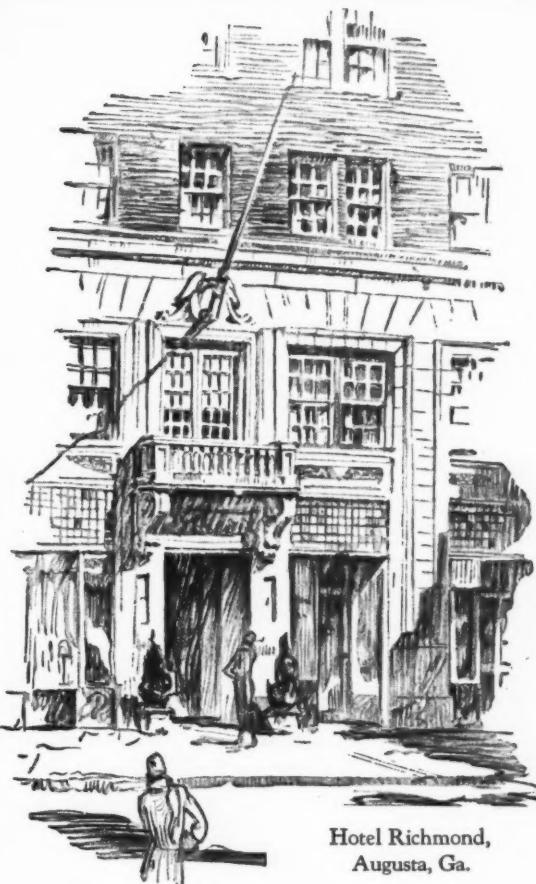
WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

M. W. ELKINS & CO.

Southern Trust Bldg.

Little Rock, Ark.



Hotel Richmond,
Augusta, Ga.

Finance Your Building Under the Miller Plan

Tens of millions of dollars of building construction are financed each year under the Miller Plan. It is worked out in scientific detail to meet the requirements of the builder and property owner.

Funds available as construction proceeds—a long-term loan which provides for all your requirements at one time—annual repayments out of earnings—are some of the features which have won favor for the Miller Plan.

If you are seeking a loan of from \$250,000 to \$1,000,000 or more, write us, asking for booklet on the Miller Plan of Financing. We will gladly arrange a personal consultation.

G. L. MILLER & CO. INCORPORATED

Northern Headquarters: 30 E. 42nd St., New York
Southern Headquarters: Hurt Building, Atlanta, Ga.



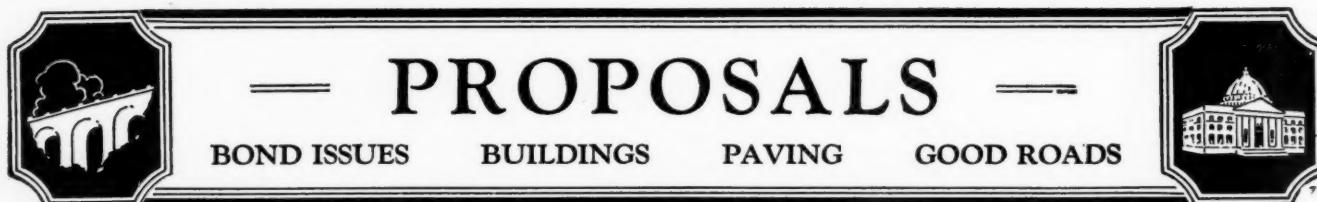
Develop 13,500 Acres of Banana Plantations.

Winter Haven, Fla.—A tract of 13,500 acres of land in the central part of Polk county occupying Peace Valley has been acquired by the Taylor-Alexander Co., Inc., of Winter Haven for developing banana plantations in units of approximately five acres each. Facilities will be provided, including office buildings, garages, packing rooms, roads and drainage system. The company is capitalized at \$500,000, with De Witt E. Taylor, president, and James Alexander, secretary.

Plans Finished for \$500,000 Sanatorium.

Alto, Ga.—Plans have been completed and will be turned over to the building committee of the State Board of Health within a few days for the proposed \$500,000 tuberculosis sanatorium to be erected here. Financial details have been arranged and half the appropriation for the new institution is available. Daniel & Beutell of Atlanta are the architects.

K. M. Blake, New York, will receive bids until April 27 at the office of Willard G. Rogers, architect, Charlotte, N. C., for the erection of a proposed 10-story office building at Charlotte.



Bids close May 4, 1925.

\$7,000,000 State of Alabama Series "D" Not to Exceed 4½ Per Cent Public Road Highway and Bridge Bonds

GOLD BONDS.

Under and by virtue of an Act of the Legislature of Alabama, approved October 31, 1921 (Acts Special Session 1921, p. 67), and of the Amendment (Article XX) of the Constitution of Alabama (Acts Special Session 1921, pp. 35-38), which authorizes the issuance and sale of Public Road, Highway and Bridge Bonds, sealed bids will be received by the Bond Commission of the State of Alabama at the office of the Governor, in the State Capitol at Montgomery, until 12 o'clock noon on Monday, May 4, 1925, for \$7,000,000 or any part thereof State of Alabama not to exceed 4½ per cent Series "D" Public Road Highway and Bridge Bonds.

Said bonds will be dated June 1, 1925, and mature \$1,000,000 annually December 1, 1949, to 1954, inclusive; and \$500,000 December 1, 1955, and 1956, interest at the rate of not more than four and one-half (4½%) percentum, payable semi-annually on June first and December first of each year. Both principal and interest are payable at the office of the State's Fiscal Agent in New York, or at the office of the State Treasurer of Alabama, at the option of the holder. Bonds will be issued in denominations of \$1000 or multiples, to suit purchaser, and will be in coupon form, but may be registered as to principal and interest at the office of the State Treasurer upon payment of the customary fees.

After written bids have been examined, at the time above stated, the bonds may be sold on open competitive bids, at the discretion of the Bond Commission. This Commission is composed of the Governor as ex-officio Chairman, the Attorney-General and the Chairman of the State Highway Commission.

Bidders must furnish a certified check, payable to the order of the Treasurer of the

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M., Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

State of Alabama, in the amount of two (2%) per cent of the par value of the bonds bid for, and this amount is to be forfeited to the state by the successful bidder should he fail to carry out the provisions of his bid. All written bids to be addressed to William W. Brandon, Governor, Chairman Bond Commission, State Capitol, Montgomery, Ala., and marked "Bid for Public Road, Highway and Bridge Bonds." The right is reserved to reject any and all bids. Temporary receipts or certificates may be issued pending preparation of bonds, to be redeemed upon their delivery.

The legality of the Bonds have been approved by Storey, Thorndike, Palmer and Dodge.

The total assessed valuation of the State of Alabama, based on sixty per cent of its tax value, is \$1,016,352,372. The total bonded indebtedness of the State is \$22,127,000; including this issue, it will total \$29,127,000, or approximately 28/10 per cent of its assessed valuation.

These bonds are forever exempt from all taxes.

For further information address

WILLIAM W. BRANDON,
Governor, Chairman Bond Commission,
State Capitol, Montgomery, Ala.,

or

W. S. KELLER,
Secretary, Bond Commission and State Highway Engineer, Montgomery, Ala.

Bids close May 5, 1925.

TREASURY DEPARTMENT, Supervising Architect's office, Washington, D. C., April 7, 1925. SEALED PROPOSALS will be opened in this office at 3 P. M. May 5, 1925, for two new toilet rooms, etc., in the U. S. Marine Hospital, Mobile, Ala. Drawings and specifications may be obtained from the Officer in Charge or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 7, 1925.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., April 9, 1925. SEALED PROPOSALS will be opened in this office at 3 P. M. May 7, 1925, for the construction, including mechanical equipment, of a one-story brick and tile non-fireproof Post Office building (approximately 62 by 64 feet) at Thomasville, N. C. Drawings and specifications may be obtained from the Custodian of the site at Thomasville, N. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close April 30, 1925.

Bridge

Sealed proposals will be received at the office of the Board of County Commissioners at the Courthouse, Okmulgee, Okla., until two (2 P. M.) Thursday, April 30, 1925, for the erection of a Highway bridge of three (3) Steel Spans, consisting of approximately two hundred and sixty (260) tons of structural steel.

Forms of proposals, contract and specifications may be secured at the office of the County Engineer.

Bids must be on proposal forms furnished by the County Engineer, accompanied by a Certified Check or Surety Company's Proposal Bond in the amount of five per cent (5%) of the bid.

The Commissioners RESERVE the right to reject any and all bids.

Detailed instructions to bidders will be found in the specifications.

H. C. KING, County Engineer.
D. V. ARMSTRONG, County Clerk.

Bids close May 5, 1925.

Highway Construction

DEPARTMENT OF PUBLIC WORKS.
STATE OF MARYLAND.
STATE ROADS COMMISSION.

NOTICE TO CONTRACTORS.

Baltimore, Md.

Sealed proposals for building nine sections of State Highway as follows:

Howard County, Cont. Ho-45—One section of State Highway from end of Cont. Ho-31 to Simpsonville and from end of Cont. Ho-31 to Dayton, a distance of 2.0 miles. (Concrete.)

Baltimore City, Cont. BC-53—One section of State Highway along Milton avenue from McElderry street to North avenue, a distance of 0.52 mile. (Sheet Asphalt.)

St. Mary's County, Cont. SM-34—One section of State Highway from Pearson toward Cedar Point for a distance of 1.25 miles. (Gravel.)

Wicomico County, Cont. WI-27—One section of State Highway along Main street, Salisbury Extended, for a distance of 1.44 miles. (Concrete.)

Carroll County, Cont. CI-21-A—One section of State Highway from Reisterstown to Westminster, a distance of 11.25 miles. (Concrete Shoulders.)

Prince George County, Cont. P-12-A—One section of State Highway from the D. C. Line to Camp Springs, a distance of 4.75 miles. (Concrete Shoulders.)

Anne Arundel County, Cont. AB-1-A—One section of State Highway along the Annapolis Boulevard from Brooklyn to the Mountain Road for a distance of 8.5 miles. (Concrete Shoulders.)

Dorchester County, Cont. D-6-A—One section of State Highway from Cambridge to Mt. Holly for a distance of 1.64 miles. (Concrete Shoulders.)

Worcester County, Cont. Wo-5-A—One section of State Highway from Berlin to Ocean City, a distance of 8.2 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 5th day of May, 1925, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 17th day of April, 1925.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close April 28, 1925.

Highway Construction

DEPARTMENT OF PUBLIC WORKS.
STATE OF MARYLAND.
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

Sealed Proposals for building nine sections of State Highway, as follows:

Garrett County, Cont. G-29—One section of State Highway from Sand Flat to Altamont, a distance of 7.5 miles. (Concrete.)

Baltimore City, Cont. BC-52—One section of State Highway along Pennington Ave. from the Coast Guard Station to the Southern City Limits, a distance of 0.78 miles. (Concrete.)

St. Mary's County, Cont. SM-32—One section of State Highway from Chaptico toward Maddox, for a distance of 2.0 miles. (Gravel.)

Cecil County, Cont. Ce-48—One section of State Highway from Blue Ball to Andora, for a distance of 3.88 miles. (Concrete.)

Talbot County, Cont. T-22—One section of State Highway from Queen Anne toward Cordova, for a distance of 2.25 miles. (Concrete.)

Washington County, Cont. W-9-A—One section of State Highway from Hagers town to the Top of South Mountain, a distance of 11 miles. (Concrete Shoulders.)

Allegany County, Cont. A-1-A—One section of State Highway from Cumberland to Frostburg, a distance of 8.75 miles. (Concrete Shoulders.)

Montgomery County, Cont. M-10-B—One section of State Highway from Silver Springs toward Olney, for a distance of 4.0 miles. (Concrete Shoulders.)

Harford County, Cont. H-1-A—One section of State Highway from Belair to Aberdeen, a distance of 11.0 miles. (Concrete Shoulders.)

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 28th day of April, 1925, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 14th day of April, 1925.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close May 15, 1925.

Road Construction

Fayetteville, W. Va.

Sealed proposals will be received by the County Court of Fayette County, W. Va., at the Courthouse in Fayetteville until 10 o'clock A. M., on the 15th day of May, 1925, and opened and read immediately thereafter, for the construction of the following section of County District Road:

Project K 50—8 miles of the Kincaid to Kingston Road, in Kanawha District, for paving with Bituminous Macadam. Certified check \$5000.

Proposals will be received only upon standard forms in accordance with plans, specifications and estimates of quantities therefore, which standard forms, plans, specifications and estimates of quantities may be obtained from the County Road Engineer at Fayetteville, W. Va.

Each proposal must be accompanied by a certified check in the amount specified.

The right is reserved to reject any and all proposals.

COUNTY COURT OF FAYETTE COUNTY.
By THOMAS BOONE, Clerk.

Bids close May 12, 1925.

Road Construction

OFFICE OF THE STATE ROAD DEPARTMENT.

Tallahassee, Fla., April 14, 1925.

Sealed bids will be received at this office until 12 o'clock noon on the 12th day of May, 1925, for the construction of the following sections of roads:

Project No. 607-B, Road No. 13, Clay County, from Bradford County Line to Maxville, approximately (6.68) miles in length. Work to consist of construction on 8-inch Florida Lime Rock Base on the prepared subgrade.

Project No. 617, Road No. 5, Alachua County, from High Springs to the High Springs-Newberry District Line, approximately 5.17 miles in length.

Project No. 618, Road No. 5, Alachua County, from High Springs-Newberry District Line to the Newberry-Archer District Line, approximately 10.89 miles in length. Work on Projects 617 and 618 to consist of Clearing, Grubbing, Grading and the construction of the necessary Drainage Structures.

Project No. 628, Road No. 3, Volusia County, from the DeLand-Orange City District Line to St. John's River, approximately 9.92 miles in length. Work to consist of the construction of an 8-inch Florida Lime Rock Base upon the prepared subgrade.

Project No. 629, Road No. 8, Highlands County, from Lake Annie-Six Miles East. Work to consist of the construction of a 6-inch loose measurement Florida Lime Rock Base upon the prepared subgrade.

Project No. 647, Road No. 8, from Six Miles East of Lake Annie to Project 630, a distance of approximately 7.0 miles. Work to consist of the construction of a 9-inch loose measurement Florida Lime Rock Base upon the prepared subgrade.

Project No. 638, Road No. 1, Santa Rosa County, from the Blackwater River Bridge to the Brick Pavement, a distance of approximately 0.34 miles. Work to consist of the construction of earth embankment containing approximately 20,000 cubic yards of material.

Project No. 661, Road No. 2-A, Lake County, from Leesburg to Helena Run, approximately 3.52 miles in length. Work to consist of the Clearing, Grubbing, Grading, Drainage Structures, and alternate bids will be received on the following types of pavement: Bituminous Macadam, Sheet Asphalt, Asphaltic Concrete and Brick on a Florida Lime Rock Base, with and without a concrete flush curb.

All work to be done in accordance with plans and specifications of the State Road Department.

A certified check or bidder's bond, made payable to the Chairman of the State Road Department, in the sum of five (5%) per cent of the amount bid must accompany each proposal.

Plans may be examined at this office or at the office of the Division Engineer, or may be obtained upon application to this office for the sum of \$5.00 each, which amount will be refunded if the plans are returned in good condition by a bona fide bidder within 10 days after bids have been received.

The right is reserved to reject any or all bids and to award projects 629 and 647 in one contract.

H. B. PHILIPS, Chairman.
J. L. CRESAP, State Highway Engineer.

Bids close April 29, 1925.

Sewers

DEPARTMENT OF PUBLIC IMPROVEMENTS.

SUB-DEPARTMENT OF HIGHWAYS ENGINEER.

Baltimore, Md., April 15, 1925.

Sealed bids or proposals, in duplicate, addressed to the Board of Awards, in care of the City Register, City Hall, Baltimore, Md., for building storm drains and sanitary sewers in Sewer District H-9, in the City of Baltimore, as embraced in Storm Water Contract No. 85, and shown on plans on file in the office of the Highways Engineer, City Hall, Baltimore, Md., until Wednesday, April 29, 1925, at 11 o'clock A. M., at which time they will be publicly opened by the Board of Awards and read.

Each bid must be accompanied by a certified check of the bidder on a clearing-house bank, drawn to the order of the Mayor and City Council of Baltimore, in the amount of Three Thousand Eight Hundred Dollars (\$3800).

Bond in the amount of the contract price will be required of the successful bidder.

The Board of Awards reserves the right to reject any or all bids.

This work comprises approximately:

753 lin. ft. 12 ft. x 6 ft. 9 in. Reinforced Concrete Box Drain.

1287 lin. ft. 12 ft. x 5 ft. 6 in. Reinforced Concrete Box Drain.

428 lin. ft. 12 ft. x 4 ft. 6 in. Reinforced Concrete Box Drain.

124 lin. ft. 54 in. diameter Reinforced Concrete Pipe Drain.

50 lin. ft. 36 in. diameter Reinforced Concrete Pipe Drain.

20 lin. ft. 33 in. diameter Reinforced Concrete Pipe Drain.

2650 lin. ft. 20 in. Vitrified Pipe Sewer.

76 lin. ft. 15 in. Vitrified Pipe Inlet Connections.

121 lin. ft. 10 in. Vitrified Pipe Sewer.

45 lin. ft. 8 in. Vitrified Pipe Sewer.

784 lin. ft. 6 in. Vitrified Pipe House Connections.

1650 lin. ft. 8 in. Underdrain.

1300 lin. ft. 6 in. Underdrain.

Plans, specifications and bidding form may be obtained at the office of the Highways Engineer, Room 10, City Hall, Baltimore, Md., upon deposit of Five Dollars (\$5.00), which deposit will be refunded only if the plans and general specifications, in case a bid is submitted, or the plans, general specifications and special specifications, in case no bid is submitted, are returned to the office of the Highways Engineer in good condition on or before the time set for opening the bids.

BERNARD L. CROZIER,
Highways Engineer.
STEUART PURCELL,
Chief Engineer.

APPROVED:

HOWARD W. JACKSON,
President Board of Awards.
GEORGE E. KIEFFNER,
Assistant City Solicitor.

PROPOSALS

Manufacturers Record

Bids close May 6, 1925.

Road Improvements

YORK COUNTY PERMANENT ROAD COMMISSION, YORK-ROCK HILL ROAD.

York, S. C.

Bids will be received until 12 o'clock noon Wednesday, May 6, 1925, at the office of the York County Permanent Road Commission, Courthouse, York, S. C., for the grading, draining and paving of the section of State Route No. 5 $\frac{1}{2}$ between York and Rock Hill, a distance of approximately 13.17 miles.

The work will be let in two sections of approximately 6.53 and 6.65 miles. In case one contractor is low bidder on both projects he will be awarded both contracts only on condition that he put an adequate outfit on each project and carry on the work simultaneously on both.

The work from York to Survey Sta. 374 consists of necessary clearing and grubbing, 19,500 cu. yds. common excavation, 500 cu. yds. rock excavation, 650 lin. ft. reinforced concrete culvert pipe, 40 cu. yds. class "B" concrete headwalls, 25 cu. yds. class "A" concrete in bridge beams and slab, 4500 lbs. reinforcing steel in bridge beams and slab, 656 lin. ft. wooden guard rail, 68,425 sq. yds. plain concrete pavement or 68,425 sq. yds. cement concrete base and 62,500 sq. yds. bituminous concrete surface, 500 sq. yds. reinforced concrete pavement or 500 sq. yds. reinforced concrete base or same yardage of plain and reinforced base and 62,500 sq. yds. sheet asphalt, all quantities approximate.

The work from Survey Sta. 374 to Rock Hill consists of necessary clearing and grubbing, 19,000 cu. yds. common excavation, 800 lin. ft. reinforced concrete culvert pipe, 55 cu. yds. class "B" concrete headwalls, 216 lin. ft. guard rail, 69,725 sq. yds. plain concrete pavement or 69,725 sq. yds. plain cement concrete base and 63,725 sq. yds. bituminous concrete or sheet asphalt surface course, 500 sq. yds. reinforced concrete pavement or 500 sq. yds. reinforced base, all quantities approximate.

Each proposal must be accompanied by a certified check for five (5%) per cent or over of the amount of the bid. All proposal guarantees are to be made payable to the Chairman of the York County Permanent Road Commission.

Plans, specifications and proposal forms are on file at the office of Lee, Murray, Palmer and Brown, York, S. C., and at the offices of the State Highway Engineer, Columbia, S. C. Plans will be furnished at the latter address upon request, accompanied by a check for \$5.00 for each set of plans, and no refunds will be made for plans returned.

Bids close May 5, 1925.

Paving

Baton Rouge, La.

Sealed bids will be received by the Commission Council of Baton Rouge, La., at the office of the Mayor, City Hall, until 11 o'clock A. M. Tuesday, May 5, 1925, for paving forty-three streets.

Bids will be received upon Warrenite Bitulithic, sheet asphalt and asphaltic concrete paving on concrete base.

APPROXIMATE QUANTITIES.

128,000 sq. yds. Surfacing and Base.
40,000 cu. yds. Excavation.
18,200 lin. ft. Pipe.
290 Catch Basins.
92,593 lin. ft. Curb and Gutter.

17 Manholes.

Plans and specifications are on file in the office of the Consulting Engineer, City Hall. Copies of same may be obtained upon payment of \$15, which will not be returned. A certified check for five (5%) per cent of amount bid, payable to the Commissioner of Finance, Baton Rouge, shall accompany each bid.

The right is reserved to reject any and all bids.

J. W. BILLINGSLEY,
Consulting Engineer.

Bids close May 12, 1925.

Sewer System

Magnolia, Ark.

Sealed bids will be received by the Board of Commissioners of Sewer Improvement District No. 1 of Magnolia, Arkansas, up to 2 o'clock P. M. of the 12th day of May, 1925, for the furnishing of all material and labor required in the construction of a complete sanitary sewer system, the approximate quantities of which are as follows:

TRENCHING AND BACKFILLING.

36,435 ft.—cut 0 to 6 ft.
14,445 ft.—cut 6 to 8 ft.
3,190 ft.—cut 8 to 10 ft.
380 ft.—cut 10 to 12 ft.
330 ft.—cut 12 to 14 ft.
390 ft.—cut 14 to 16 ft.
320 ft.—cut 16 to 18 ft.

SEWER PIPE FURNISHED AND LAID.

41,345 ft. 8 in. Vit. Sewer Pipe.
10,187 ft. 10 in. Vit. Sewer Pipe.
3,576 ft. 12 in. Vit. Sewer Pipe.
262 ft. 15 in. Vit. Sewer Pipe.
60 ft. 8 in. C. I. Pipe.
48 ft. 10 in. C. I. Pipe.
12 ft. 12 in. C. I. Pipe.
1,013 6 in. by 8 in. Y's.
29 6 in. by 10 in. Y's.
6 6 in. by 12 in. Y's.

APPURANCES.

131 Manholes.
12 Flush Tanks.
33 ft. Ex. Depth Manholes.
590 $\frac{3}{4}$ in. G. W. I. Pipe.
12 Service Connections.
2 Outlet Protections.

DISPOSAL PLANTS.

2 Disposal Plants complete, including inlet manholes, Imhoff tanks, dosing chambers, filters, etc.

Plans and specifications are on file at the office of the Board of Commissioners of Magnolia, Arkansas, and at the office of the Engineers, E. T. Archer & Company, New England Building, Kansas City, Missouri, and City Bank Building, Shreveport, La., who will furnish prospective bidders with bidders' blanks without charge.

Individual copies of the plans and specifications will be prepared for those requesting same, with the understanding that they will be returned at or before the time of letting, for the use of which a nominal fee of \$5.00 will be made and not refunded.

The Board of Commissioners reserve the right to reject or accept any bid without explanation.

J. O. HUTCHINSON.
D. D. GOODE.
H. P. CARRINGTON.

E. T. ARCHER & COMPANY,
Consulting Engineers,
Kansas City, Missouri.

Bids close May 12, 1925.

Water Mains

Magnolia, Ark.

Sealed bids will be received by the Board of Commissioners of Water Improvement District No. 1 of Magnolia, Arkansas, up to 2 P. M. of the 12th day of May, 1925, for the furnishing of all material and labor required in the extension of water mains, the approximate quantities of which are as follows:

PIPE LAID.
8,592 lin. ft. 6 in. C. I. Pipe.
32,702 lin. ft. 4 in. C. I. Pipe.
460 lin. ft. 4 in. C. I. Pipe, relaid.
10,550 lin. ft. 2 in. G. W. I. Pipe.
21,620 lbs. C. I. Specials.

120 G. W. I. Fittings.

14 C. I. Wet Connections.

HYDRANTS AND VALVES.

22 4 in. Hydrants, 6 in. Shoe.
46 4 in. Hydrants, 4 in. Shoe.
8 6 in. Gate Valves and Boxes.
40 4 in. Gate Valves and Boxes.

19 2 in. Gate Valves and Boxes.

Plans and specifications are on file at the office of the Board of Commissioners of Magnolia, Arkansas, and at the office of the Engineers, E. T. Archer & Company, New England Building, Kansas City, Missouri, and City Bank Building, Shreveport, La., who will furnish prospective bidders with bidders' blanks without charge.

Individual copies of the plans and specifications will be prepared for those requesting same, with the understanding that they will be returned at or before the time of letting, for the use of which a nominal charge of \$5.00 will be made, and not refunded.

All bids must be made out on bidders' blanks and be accompanied by a certified check, drawn on some known responsible bank, in a sum equal to 5% of the amount of the bid, guaranteeing the bidder entering into a contract for the work, and furnishing the necessary bonds within a period of ten days thereafter.

The Board of Commissioners reserve the right to reject or accept any bid without explanation.

J. O. HUTCHINSON.
D. D. GOODE.
H. P. CARRINGTON.

E. T. ARCHER & COMPANY,
Consulting Engineers,
Kansas City, Missouri.

Bids close May 7, 1925.

Water-Works Improvements

High Point, N. C.

Sealed proposals will be received by the Mayor and City Council of High Point, N. C., until 7:30 o'clock P. M. May 7, at the City Hall in High Point, N. C., for Water Works Improvements enumerated as follows:

Furnishing and delivering F. O. B. cars High Point, N. C., four (4) motor-driven and two (2) gasoline-engine driven centrifugal pumping units with starters and apparatus equipment.

Furnishing materials and labor for and constructing additions to the River Pumping Station, the City Pumping Station and the Filter Plant.

Remodeling filter piping, etc., in filter plant and installing controlling equipment, chemical laboratory equipment, filter sand and gravel, etc.

Furnishing materials and labor for and constructing a reinforced concrete coagulating basin.

Furnishing and installing piping, valves, fittings, etc.

Proposals must be marked "PROPOSALS FOR WATER WORKS IMPROVEMENTS." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications, enclosed in a sealed envelope and addressed to the Mayor and City Council of the City of High Point, N. C.

Each bid must be accompanied by a certified check in the amount of seven and one-half (7 1/2%) per cent of the amount of the bid as evidence of good faith. Bid bonds will not be acceptable.

Copies of the plans, specifications, form of proposal, contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids, or to award contract or contracts which, in the opinion of the Engineer and the Council, appear to be for the best interests of the city.

JNO. W. HEDRICK, Mayor.
R. L. PICKETT, City Manager.
WILLIAM C. OLSEN, Consulting Engineer, Raleigh, N. C.

Bids close May 23, 1925.

Masonic Temple.

New Orleans, La.

Sealed proposals will be received until 10 A. M. Saturday, May 23, 1925, for the construction of a fifteen (15) story, 100' x 165' Masonic Temple in the City of New Orleans, La., in accordance with drawings and specifications prepared therefor by Sam Stone, Jr., Architect, 714 Union street, New Orleans, La.

Drawings and specifications may be obtained from the Architect by persons or firms engaged in the lines of work required and at the discretion of the Architect upon the deposit of a certified check or money in the sum of \$25 (TWENTY-FIVE DOLLARS), which deposit will be returned upon the return of the drawings and specifications in good condition and provided a bona fide bid shall be submitted in accordance with this notice by the person or firm to whom the said drawings and specifications are delivered.

Bids shall be sealed and addressed to Jno. A. Davilla, Grand Secretary of the Grand Lodge F. & A. M. of the State of Louisiana, 533-535 Iberville street, New Orleans, La., and shall be accompanied by a certified check or cash in the sum of \$5000 (FIVE THOUSAND DOLLARS) to guarantee that the person or firm by whom the bid is submitted will furnish bond as herein required, and enter into a contract in accordance with the bid within fifteen (15) days after being notified of the acceptance of the bid.

The contractor to whom the work is awarded will be required to furnish bond through a surety company satisfactory to the owners in a sum not less than fifty per cent (50%) of the contract to guarantee the faithful performance of all of the conditions of the contract.

The owners reserve the right to reject any or all bids.

The general contract is to include all work in accordance with drawings and specifications, except the following items, upon which separate bids will be received, viz:

STRUCTURAL STEEL
HEATING
PLUMBING
VENTILATION
OIL-BURNING EQUIPMENT
ELECTRICAL WORK
ELEVATORS
MAIL CHUTE
VAULT DOOR AND EQUIPMENT.

Bids close April 30, 1925.

Concrete Drainage Structure

Moultrie, Ga.

Sealed proposals will be received by the Board of Commissioners of Roads and Revenues of Colquitt County, Ga., at the office of said board in the courthouse at Moultrie at 10 A. M. Eastern time on the 30th day of April, 1925, for furnishing all labor, materials, equipment and other things necessary for constructing concrete drainage structures on the following projects:

Project No. 1, on the Moultrie-Meigs road; Project No. 2, on the Moultrie-Chastine road; Project No. 3, on the Moultrie-Norman Park road; Project No. 4, on the Berlin-Ellenton road.

These structures are to be built in accordance with the plans and specifications of the Georgia State Standards for such structures.

The work will consist of the following approximate items:

Project No. 1—750 cu. yds. Class "A" concrete.

120 cu. yds. class "B" concrete.

72,405 lbs. reinforcing steel.

606 lin. ft. Type C handrail.

900 lin. ft. 36-inch concrete pipe.

Project No. 2—578 cu. yds. class "A" concrete.

69,491 lbs. reinforcing steel.

514 lin. ft. handrail.

Project No. 3—178 cu. yds. class "A" concrete.

16,247 lbs. reinforcing steel.

130 lin. ft. Type C handrail.

420 lin. ft. 36-inch concrete pipe.

Project No. 4—180 cu. yds. class "A" concrete.

20 cu. yds. class "B" concrete.

14,100 lbs. reinforcing steel.

154 lin. ft. Type C handrail.

180 lin. ft. 36-inch concrete pipe.

Plans and specifications are on file at the office of the board at Moultrie, Ga., or at the office of the engineers at Americus, Ga.

Said work will be paid for as same progresses, to wit: 90% of the amount completed in each calendar month will be paid by the 15th day of each succeeding month, and the remainder shall be paid within thirty days of final acceptance.

Proposals must be submitted on regular forms supplied by the undersigned and must be accompanied by a certified check or bidder's bond for five per cent of the amount of the bid.

Bond will be required of the successful bidder as required by the law.

Right is reserved to reject any or all bids and to waive all formalities.

This 1st day of April, 1925.

BOARD OF COMMISSIONERS ROADS

AND REVENUES.

Colquitt County.

SAM HARRELL, Chairman.

CAYE-ANDREWS CO., INC., Engineers,
Americus, Ga.

Bids close May 13, 1925.

Proposal for Furnishing and Erecting Superstructures of Buildings for Additions to Montebello Filters

WATER DEPARTMENT.

Baltimore, Md.

Sealed bids or proposals, in duplicate, "Proposals for Furnishing and Erecting Superstructures of Buildings for Additions to Montebello Filters," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, until 11 A. M. Wednesday, May 13, 1925, at which time they will be publicly opened and read.

Specifications and proposal form may be obtained at the office of the Water Engineer, City Hall, Baltimore, Md., on and after April 25, 1925. A charge of \$25 will be made for each set of specifications, either by the submission of a bid or to room 205, City Hall, not later than the day of opening bids.

All bids must be accompanied by a certified check of the bidder on a clearing-house bank for the sum of Fifteen Thousand Dollars (\$15,000), made payable to the order of the Mayor and City Council of Baltimore, and the successful bidder will be required to give satisfactory bond for the faithful performance of the agreement equal in amount to the value of the contract.

The Board of Awards reserves the right to reject any or all bids.

Approved:

V. BERNARD SIEMS, Water Engineer.

Bids close April 28, 1925.

Ornamental Fence

OFFICE OF THE CITY MANAGER,

Tallahassee, Fla., April 4, 1925.

Sealed bids will be received in this office at 12 o'clock noon April 28, 1925, for furnishing 5400 feet of ornamental fence, 505 steel line posts, 6 steel corner posts, 6 gate posts equipped with necessary fittings for the 10-ft. gate; 3 plain gates ten feet wide; 3 plain gates three feet wide, 6 gate posts equipped with necessary fittings for the 3-ft. gate; stays not to be more than two inches apart; height not to be less than forty-eight inches; number nine or number ten gauge wire; angle and gate posts designed to be set in concrete and fasteners to be furnished with posts.

Print or photograph of fence to be attached to bid.

Print of land showing location of gate and corner posts may be had upon request.

Prices delivered Tallahassee, Florida.

Bids to be marked "Bids for Ornamental Fence."

Right is reserved to reject any and all bids.

WM. R. GALT, City Manager.
B. H. BRIDGES, City Auditor and Clerk.

Bids close May 11, 1925.

Meter Connection

OFFICE OF THE CITY MANAGER

Tallahassee, Fla., April 4, 1925.

Sealed bids will be received in this office at 12 o'clock noon May 11, 1925, for furnishing the following material:

Two 16"x4"x4" "Y" special.

Three 4" gate valves, standard.

One pc. 4" pipe 3' 0" long, 2 figs.

125-pound working pressure.

Print, with dimensions, may be had upon request.

Prices delivered Tallahassee, Florida.

Bids to be marked "Bids for meter connection."

Right is reserved to reject any and all bids.

WM. R. GALT, City Manager.
B. H. BRIDGES, City Auditor and Clerk.

Bids close May 5, 1925.

County Jail Work

Galveston, Tex., April 4, 1925.

Bids in duplicate will be received by the undersigned until 10 A. M. May 5, 1925, for the construction and erection of 6 to 10 Toolproof Steel Cells, with latest locking devices, Bunks, etc. Doors, Plumbing, Concrete Floor, etc., all on the fourth floor of County Jail, in accordance with Plans and Specifications on file in my office. A certified check on a Galveston bank for \$500, payable to County Judge, must accompany each bid. The County Commissioners' Court reserve the right to reject any and all bids, which must be addressed to the undersigned and marked "Bids for Jail Work."

JOHN M. MURCH, County Auditor.

Bids close April 29, 1925.

Power Plant Improvements

Scotland Neck, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of the town of Scotland Neck, N. C., until 12 o'clock noon April 29, 1925, for:

Furnishing, delivering and erecting one (1) 500 Horsepower Horizontal Water Tube Boiler, complete with brick setting, Dutch oven, grates, soot blowers and steel stack.

Proposals must be submitted in a sealed envelope addressed to the Mayor and Commissioners of the Town of Scotland Neck, N. C., and marked "Proposal for Boiler."

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of bid as evidence of good faith.

Copies of the specifications may be obtained upon application to the Engineer.

The town reserves the right to reject any or all bids or to award contract in such manner as may appear to be for the best interest of the town.

GUS WHITE, Mayor.
IRWIN CLARK, Clerk.
L. K. MILLS, Superintendent.
WILLIAM C. OLSEN, Engineer,
Raleigh, N. C.

CLASSIFIED OPPORTUNITIES**MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES****NORTHWEST GEORGIA.**

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays. Large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Ga.

MINERAL AND TIMBER PROPERTIES WANTED**WANTED.**

TO HEAR from parties having mineral properties for sale.

UNITED MINERALS CO., Roanoke, Va.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES**MANGANESE PROPERTY**

MANGANESE MINES—Two going manganese mines, all equipment. Transportation facilities good.

R. P. JOHNSON, Wytheville, Va.

BAUXITE AND CLAY

BAUXITE AND CLAY FOR SALE on royalty basis; no eat-in-the-bag proposition. Am ready to do business. See me.

DAN KLECKLEY, Ex., Oglethorpe, Ga.

SILICA DEPOSIT

FOR SALE—Unlimited deposit of Silica, 99% without being washed. Fully developed, operated for several years. Loaded by gravity on Southern Railroad, fifteen miles from Bristol, Va.-Tenn. Air compressor drills and other machinery operated by water power. Address A. D. Reynold owner, Bristol, Tenn.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

KAOLIN

GEORGIA KAOLIN—Wanted to get in touch with parties interested in buying or developing large deposits of Georgia Kaolin. W. J. DUKES, Ridgeville, S. C.

COAL AND TIMBER LAND

TIMBER AND COAL LANDS FOR SALE. 100,000 standing trees, oak, pine, poplar, beech, hickory, sugar, gum, walnut, etc. Also 4000 acres coal. Located on Licking and tributaries. Accessible to railroad and water. Address E. B. ARNETT, Salyersville, Ky.

TIMBER AND TIMBER LAND

FOR SALE—Timber lands, cut-over lands especially suitable for colonizing, ranching or subdivision, located Alabama and Florida. H. H. WEFEL, JR., Mobile, Alabama.

FOR SALE—6,000,000 ft. L. L. Pine on 1900 acres located in North Florida; \$5.00 per thousand. Lease. H. M. LINDSEY & COMPANY, Mobile, Ala.

FOR SALE—75,000,000 feet hardwood on 10,000 acres; located on river and railroad. Price, cruise, maps, etc., upon request. H. M. LINDSEY & COMPANY, Mobile, Ala.

FOR SALE—60,000,000 ft. Virgin Round L. L. Pine on 25,000 acres, solid body, in North Florida. On river, 4 miles to railroad; \$5.00 per thousand. Lease. H. M. LINDSEY & COMPANY, Mobile, Ala.

LARGE TRACT OF TIMBER—35,000,000 feet of timber, two-thirds white and chestnut oak, balance white pine and hemlock; exceptionally clean, good timber; 12 miles from C. & O. Ry. by good, hard road; 10,000 acres, of which one-half will be fine, arable land and, subdivided, sell well. JULIAN BRYANT, Covington, Virginia.

FARM AND TIMBER LAND

FOR SALE—1200-Acre Farm and Timber Land; productive soil, 10-room house, tenant houses, 800 acres, oak, chestnut, pine and hickory, mica prospects, Ruby and Rhodolite gems; 10 miles north of Franklin, N. C.; 3 miles of State Highway; title guaranteed. John E. Rickman, Franklin, N. C.

FOR SALE—Fifteen hundred-acre farm and timber land, productive soil, suitable for growing cotton, corn, grain, melons and peaches. Large amount of fine pine and hardwood timber on place. Five miles from nearest railroad station, located in Washington County, Georgia. Full particulars on application to W. J. DUKES, Ridgeville, S. C.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

INVESTMENTS—In the land of Manatee, Sarasota, Bradenton, Palmetto, Ferra Cela, Sun City, Piney Point. Acreage, subdivisions, lots. Estators, Ferra Cela, Florida.

LAST CHANCE to buy large tracts facing the great gulf to Atlantic Highway; 42,960 acres at \$13 per acre, facing six miles on paved highway, most important highway in the State of Florida.

R. G. TONKIN, Arcadia, Florida.

S. J. OVERSTREET, Realtor
Walker Apartment Building,
Titusville, Florida.

City Property. Farms. Groves. Acreage.
Nothing but Real Estate.

GREATEST LAND BUY IN FLORIDA. Fifteen Thousand Acres in South Florida in a solid body, with six miles frontage on large and beautiful lake.

Direct water connection to Atlantic Ocean and Gulf of Mexico.

Near several up and going towns.

Fertile, dark loam soil, adapted to production of celery, lettuce, cucumbers, Irish potatoes, sugar cane, bananas, etc.

Game in abundance, such as deer, turkey, duck, squirrel, quail and snipe.

Finest bass fishing in the state.

A sportsman's paradise, with great possibilities for future development. A good investment at \$14 per acre.

J. E. CRAWFORD,
1001 State Bank Building, Orlando, Florida.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

LISTINGS WANTED direct from owners of acreage, colonization and timber tracts, Indian River and ocean frontage. We have numerous clients and have inquiries for all kinds of Florida land. Address Mr. Foster, with P. J. Sexton, Melbourne, Florida.

FOR SALE—48 acres, one mile and half south of Vero, on Dixie Highway. Price six hundred dollars per acre. We also have ocean frontage at ten dollars per foot up. Hoyt E. Morris & Co., Vero, Fla., on the East Coast.

FLORIDA INVESTMENTS—Acreage tracts, timber tracts, subdivisions and hotel sites, any section in Florida. Some bargains with quick turnovers and large profits on small investments assured; 25 years' experience. **ASK ANYBODY**. N. D. SUTTLES & COMPANY, Jacksonville and West Palm Beach, Fla.

IF YOU ARE INTERESTED in Florida Real Estate, please write us for information. We have both large and small acreage and very often have attractive buys in business property in Kissimmee. Please write us for any information desired. W. B. Luke & Company, Kissimmee, Fla.

FLORIDA INVESTMENTS.

Manatee County truck and farm lands. We handle business properties, subdivisions and general real estate. Write for information about this county.

MANATEE LAND SALES CO.,
Bradenton, Fla.

YOU CAN ALWAYS RELY ON A REALTOR
LOVELAND & TANNER,
REALTORS.

PALATKA, FLORIDA.
Specializing in acreage, investments and industrial locations in Putnam County, Florida. Preferential freight rates, 3 railroads and St. John's River steamers to New York. Ask for booklet.

TWENTY ACRES AND PLENTY.

Free book tells truth about Florida land; monthly payments \$1 an acre. Orange groves, planted, cared for 10 per cent above cost.

SYLVESTER E. WILSON,
Dept. X, Orlando, Fla.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list, Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the War," Tampa, Fla.

WE OWN 14,000 ACRES farming land located twenty miles northwest of Palm Beach, with six miles frontage on Seaboard Airline Railway and with the Central Dixie Highway running through the property. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY,
316 Clematis Avenue,
West Palm Beach, Fla.

OPPORTUNITIES IN FLORIDA LAND.

We own 60,000 acres of valuable land in the Ridge Country of Florida which we are prepared to sell in two hundred-acre units or more.

This property is situated near the towns of Avon Park and Sebring, and would make a most valuable investment.

Florida lands are increasing in value right along and this tract offers unusual opportunity.

Write or wire for complete information.

BRIDGES CATTLE COMPANY
PENN-FLORIDA CATTLE COMPANY
Avon Park, Fla. Sebring, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

NEW PORT RICHEY—On river and near Gulf, is one of the beautiful spots of Florida. A coming tourist center. Lands are still reasonable in price. We have acreage, groves, houses and town lots. Booklet to interested parties. Edgar A. Wright Realty Company, New Port Richey, Florida.

FLORIDA ACREAGE—Twenty-two thousand acres at \$25; eighty-one thousand at \$30 and twenty-three thousand at \$32, all in Pasco County, where Percy Rockefeller and Otto Kahn have been investing. One-fourth cash, balance one, two and three years at 6% interest. Edgar A. Wright Realty Co., New Port Richey, Fla.

ARE YOUR EYES WIDE OPEN
AND YOU STILL SOUND ASLEEP

ON MIAMI AND ITS ENVIRONS

THE FASTEST-GROWING CITY
ON GOD'S GREEN FOOTSTOOL.

AWAKE, YE SLUMBERING ONES!
IN ALL WALKS OF LIFE!
MIAMI IS CALLING YOU NOW
IN OPPORTUNITY'S GOLDEN VOICE.

BUY IN OR NEAR MIAMI—BUY NOW!
PARKED THINK-MOTORS WON'T ACT.

A. A. WHITE & CO.,

"Realty Service Built on Sincerity,"

29 N. E. THIRD AVENUE,
MIAMI, FLORIDA.

MISSISSIPPI

MISSISSIPPI GULFCOAST.

Come down and live in the most beautiful spot in America. Raise grapefruit, pecans, oranges, pears, peaches and many other fruits. Truck farming carried on throughout the winter months. Country growing rapidly.

I handle all kind of property, from big colonization tracts down to small city lots. Write for booklet.

B. C. COX,
Gulfport, Miss.

FISH AND GAME LAND

FOR SALE—Seventeen hundred acres adjoining Government preserve in western North Carolina. Over 15 miles fishing streams, Rainbow and mountain trout, deer, bear, turkey, pheasants and smaller game. Easily accessible; timber land. Will sell at bargain. George W. McCoy, Box 2056, Glen Rock Station, Asheville, N. C.

RANCH

FOR SALE—Eighteen-thousand-acre ranch near Cadillac, Michigan, prosperous city of 10,000 population; beech and maple land suitable for sheep, cattle, gentleman's country estate or game preserve. Trout streams, alfalfa, three sets of modern buildings, silos, good auto roads, two railroads. This wonderful property can be bought on small payment down and long time on balance. Price \$250,000. Send for illustrated booklet.

J. E. MERRITT,
232 S. Clark Street, Chicago, Ill.

BUSINESS OPPORTUNITIES

THE INVENTOR of chemical process for the manufacture of brick desires to get in touch with people that own sand banks. W. L. Sanderson, 1202-1208 Fourth street, Meridian, Miss.

FOR SALE—One of the finest going Pine Sawmill propositions in the South. Takes a well-rated concern to handle, but the terms easy. Facts furnished. H. M. LINDSEY & COMPANY, Mobile, Ala.

RETAIL LUMBER and building material business, with woodworking plant in connection, for sale in Alabama by owner wishing to go into other line of business. Excellent opportunity offered. Address No. 6455, care Manufacturers Record, Baltimore, Md.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Colorado Building,
Alexandria, Va. Washington, D. C.

YOUR IDEAS DEVELOPED. Mechanical drawing; difficult designs; new products for factories, industrial plants and utilities; valuations and reports for investors. Write Baskerville Engineers, 807 Farley Building, Birmingham, Ala.

WANTED—\$20,000 ADDITIONAL CAPITAL—A well-established wholesale company located in Jacksonville, Florida, doing an annual business over three thousand cars, desires additional capital, properly develop and finance their Florida business. Will make liberal arrangements with right party. Proposition will bear closest investigation. Address No. 6450, care Manufacturers Record.

LUMBER YARD—We would like to get in touch with someone who could furnish \$25,000 to \$60,000 to join with us in a wholesale and retail lumber yard in southern West Virginia. Yard has been established several years and has well-established trade. Increased capital needed to handle the business. Box 748, Princeton, W. Va.

WANTED—Financial assistance, crude rubber, oil-nuts, vegetable oils, timber, merchandising, pipe lines, South America propositions. Want to hear from manufacturers who can use raw material and from those who have products to sell, thus forming a syndicate to finance proposition; can be made very large and enormous. E. A. Palmgren, 211 Lexington avenue, New York, N. Y., or E. L. Beyard, Seligman, Arizona.

MANUFACTURING PLANT WANTED—Two young men of wide, successful experience in manufacturing, production and exporting, now occupying executive positions in important corporations, are desirous of buying into good working manufacturing or merchandising business that will stand strictest investigation. Only going proposition considered. Address No. 6453, care Manufacturers Record, Baltimore, Md.

SUMMER AND WINTER RESORT ON GULF OF MEXICO.

12 MILES GULF AND RIVER FRONTAGE.

5000 OR 7000 ACRES.
Railroad and 18 miles of roadways on the property, 9 towns within sight. An agricultural expert states "That the soil of this land would fertilize the lands of any county in Georgia"; 4 crops per year are now being raised there.

Were we financially able to purchase and develop it this advertisement would not be written. To the party who can handle this property millions of dollars are to be made.

You who know of the fortunes that have been made in the development of Florida lands on the Gulf and Ocean fronts will readily see the opportunities offered here.

Only \$60 per acre, one-fifth cash, balance 1, 2, 3, 4, 5 years.

This land is situated in Southern Mississippi. Advertising is all it needs. GOD and NATURE have done the rest.

Half the oil rights reserved.

Full and complete data will be sent to a sincerely interested party; we will spend any time necessary for the fullest investigation.

Will take an interest in making this one of the best summer and winter resorts and join in colonization.

Send for literature. Brokers protected.

SOLE AGENTS

CARROLL & WEBB,

409 N. E. Second Avenue, Miami, Fla.

BUSINESS OPPORTUNITIES

PATENTED WATER FILTER—Operates with bottle type coolers. Eliminates expense of buying bottled waters. Hundreds in service giving excellent results. Endorsed by physicians, health associations, etc. Large profit possibilities depend on quantity purchases and advertising only. Will sell all or part interest in present going business. Address P. O. Box 817, Jacksonville, Fla.

JOIN OUR ACREAGE SYNDICATE.
To purchase valuable tract of acreage five miles north of proposed city limits of Miami, with mile frontage on Seventh avenue.

We have option on land and by syndicating with number of men can handle this wonderful tract without financial strain on anyone.

We believe this property will sell for double in a year.

To get this property we must act quickly. Let us explain this plan to you.

Electric light line now on property.
L. F. HUGHES,
Realtor,
150 S. E. First street, Miami, Fla.
A. J. KEELY,
Sales Manager.

PATENTS FOR SALE

PATENT SASH AND SCREEN DOOR.
Sash always with door and adjustable. Full door protection against flies or storm. A winner. Big demand. Sell outright or royalty, or consider partner with money to manufacture. J. D. Sellars, Ritzville, Wash.

PATENTED SWIVEL BRACKET—Holds swinging panels like leaves in a book. Greatly increases wall space. Ideal for maps, blueprints, price lists. Very inexpensive and salable. Sell outright or royalty or consider partner, with money, to manufacture.

P. O. Box 817, Jacksonville, Fla.

CHEMICALS

WE BUY FOR SPOT CASH Surplus and Odd Lots of Chemicals, Oils, Dyes, intermediates, solvents, gums, glues, waxes and any item of a chemical nature.

REPUBLIC CHEMICAL CORP.,
303 Pearl Street, New York, N. Y.

INDUSTRIES WANTED

HOLDENVILLE, OKLA.—Population 6500, on the main lines of the Rock Island and Frisco Railways, surrounded by new big oil and gas fields; wants hospital and all kinds of factories. Write W. J. Ryan, Secretary Industrial Committee.

DUNNANON, VIRGINIA.

Located on the C. C. & O. Railroad; direct route to the cotton fields and Clinch River, with a gravity flow of 36,000 gallons per minute at low-water mark. Limestone adjoining on the south side and coal adjoining on the north side. Rich and thickly settled farming.

THE HAGAN TRUSTEE SYNDICATE,
Bristol, Va.

BUSINESS OPPORTUNITY.

Middlesboro, Ky., and surrounding territory needs a modern Brick and Hollow Tile Plant. An excellent deposit of the finest material is ideally located on both the L. & N. and Southern Railway. Material has been thoroughly tested out and the property core drilled. Finished product can be manufactured at exceptionally low cost. This proposition will warrant the closest investigation. Communicate with E. P. Nicholson, Middlesboro, Ky.

LOOKING FOR A LOCATION?
Altavista, located in the Piedmont section of Virginia.

OFFERS

Free Manufacturing Sites.
Virginia City Basic Freight Rates.
Labor in abundance and strikes unknown here.

Ideal Climate and we gladly welcome the chance to "SHOW YOU."
For information apply to
ALTAVISTA CHAMBER OF COMMERCE,
Altavista, Va.

INDUSTRIAL PLANTS

FOR SALE.
Brick Plant. Fine clay. A bargain.
U. H. DAVENPORT,
Athens, Ga.

INDUSTRIAL PLANTS

If interested in buying
A SOUTHERN COTTON MILL
Write to
F. C. ABBOTT & COMPANY,
Charlotte, N. C.
26 years' experience in Southern Mill Stocks.

FOR SALE—Fine, modern sorting lumber yard. Also modern planing mill and flooring plant, including ample houses for employees; cheap labor and low freight rates, with an abundance of cheap, rough stock available; plant now in operation. For details apply to

THE WEST VIRGINIA TIMBER CO.,
Orange, Va.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St. N. W., Washington, D. C.

PATENT-SENSE—"The Book for Inventors and Manufacturers"—free on request. Lacey & Lacey, Patent and Trade-Mark Lawyers, 735 F St., Washington, D. C. Established 1869. Corporation references.

PATENTS—TRADEMARKS—COPYRIGHTS
Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our Inspection and Instructions, free. Terms reasonable. Highest references. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandlee & Chandlee, 412 Seventh St. N. W., Washington, D. C.

MANUFACTURERS AGENT

CALLING ON ARCHITECTS and contractors to secure sales on newly-developed, high-grade commercial Kalamein Door, sold at prices on which large volume can be developed. No. 6433, care Manufacturers Record.

AGENTS WANTED

SELLING AGENTS WANTED IN SOUTH.
Manufacturer of hard fiber would like to get in touch with selling agents calling on class of trade using fiber in any form. Address No. 6446, care Manufacturers Record.

AGENCIES WANTED

SALES ENGINEER—Member A. I. E. E., desires connection as manufacturer's agent; at present calling on architects, engineers, railroads, industries, etc. Interested territory Baltimore and Atlanta. Not necessarily electrical equipment. Address No. 6448, care of Manufacturers Record.

SITUATIONS WANTED

MANAGER FOR PLANT—Short-line railroad or construction available. Many years' experience in managing different kinds of properties; lost present position due to firm's dissolution; correspondence solicited where manager wanted. Address No. 6447, care Manufacturers Record, Baltimore, Md.

FIFTEEN (15) YEARS' EXPERIENCE with one house in Credit and Sales work, and for last seven years manager of their credit department, with entire charge of credits and collections from home office and branch offices in the South. Am thoroughly familiar with the wholesale business in Virginia, North and South Carolina, Georgia and Alabama. Can furnish best of references. Address No. 6452, care of Manufacturers Record, Baltimore, Md.

COLLEGE MAN, speaking French, German and Holland Dutch, now employed, but with restricted future, wants new, responsible connection with large commercial concern. Ten years' analytical experience systematizing the financial machinery and productive end of manufacturing plants. Employment and Welfare Supervisor. Locate anywhere. Finest references as to character and ability. Available in 30 days. Address J. B. K., 309 Star Bidg., Washington, D. C.

SITUATIONS WANTED

I WANT TO TAKE CHARGE of a good stone-setting job for reliable contractor; will go anywhere. Address No. 6454, care Manufacturers Record, Baltimore, Md.

MEN WANTED

SALARIED POSITIONS \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

MEN WANTED

SALESMEN WANTED—Our side-line men are making \$75 per week calling on druggists and retail trade; 90% develop into full-time salesmen. Our offer means a permanent connection for the right man with references. Address Jasmine Products Co., Hall street, Norfolk, Virginia.

WANTED SALES AGENT—High-grade, A No. 1 man to offer Automobile and Truck Manufacturers a worth-while article. An exceptionally good opportunity. Good pay. Apply by letter to Mill Devices Company, attention of W. G. H., Gastonia, N. C.

MACHINERY AND SUPPLIES

FOR SALE—One Marion Model "28" traction steam shovel with $\frac{5}{8}$ -yard dipper in good condition; also four Watson dump wagons and one 14-horsepower boiler; shovel on main line C. & O. Railroad. If interested, write No. 6449, care Manufacturers Record.

MACHINERY AND SUPPLIES

FOR SALE—Woodworking machinery; complete outfit, consisting of rip and cross-cut saws, boring machines, jointers, planers, moulders, mortisers, tenoners, shapers and sanders; good condition; attractive prices. Write for particulars regarding your requirements. J. LEE HACKETT, 3-123 General Motors Building, Detroit, Mich.

FOR SALE—Four-yard Dredge Dipper, complete with bail; in first-class condition. Made by Marion Steam Shovel Co. Price low for prompt sale. Loncalia Phosphate Co., Ocala, Florida.

FOR SALE—50 h.p. Circular Sawmill complete with Trimmer, Edger and Lathe Mill; one Climax 20-ton, 36-inch Gage Locomotive, new in 1922; one Surry Parker Log Loader; five Logging Cars and 120 tons relaying rails; will sell all or any part of this equipment. Bidwell Lumber Company, Confluence, Pa.

SPECIAL ADVERTISEMENTS OF GENERAL INTEREST

FOR RENT AT MOBILE—RETAIL STORE DAUPHIN STREET

best store and location, three stories—elevator
**J. F. MAURY, Realtor
MOBILE — ALABAMA**

WASHINGTON OFFERS YOU THE RESEARCH SERVICE, INC.

a facts-finding agency, contact with the Federal government departments and the Congress, and part-time representation in the nation's capital.

Write your requirements.

**THE RESEARCH SERVICE, INC.
941 Investment Building WASHINGTON, D. C.**

You cannot dispose of
IDLE MACHINERY
if no one knows you have it to sell
Advertise it in the
MANUFACTURERS RECORD

BANKRUPTCY SALE Plant, Ice-Making Machinery, Etc.

The undersigned Trustee will receive offers to purchase the entire plant of The Consumers Ice and Cold Storage Company, consisting of real estate, situated in the City of Key West, Florida, and containing approximately 250 feet of water front property, facing on the Harbor of Key West, and all buildings, ice-making machinery, tools, appliances, trucks and wagons. A spur track leading from the railroad terminals is located on the property. The property has encumbrances of approximately sixty thousand dollars.

Bids will be received for the purchase of said property, free from all encumbrances, and alternative bids subject to encumbrances. Trustee reserves the right to reject any and all bids. All offers must be submitted to the undersigned Trustee on or before June 1, 1925.

Shirley C. Bott, Trustee

MOST DESIRABLE FACTORY FOR SALE 20 Miles from New York on main line of P. R. R.

Parallel to railroad having 10-car side track. Heavy mill construction. Buildings and sheds covering 30,000 feet. Factory building one clear story. Steam and electric power, light, water sprinklered. Especially adapted for woodworking plant, though equally as good for other purposes. Best and cheapest labor near New York.

**Address or Phone: WILL A. REAGAN, Real Estate
19 Washington Street EAST ORANGE, N. J.
Phone Orange 2359**

FOR SALE Open Hearth Steel Plant

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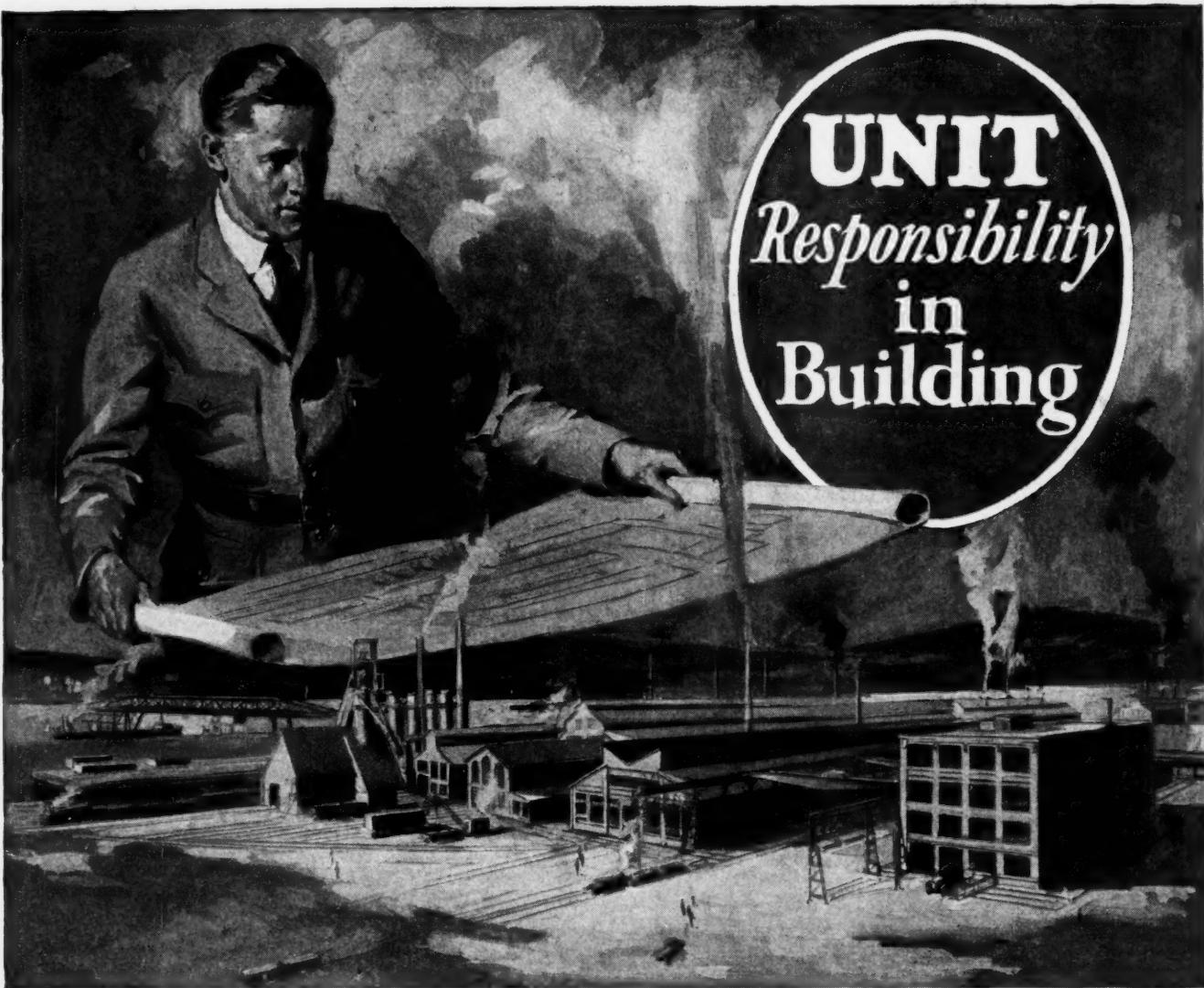
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